Saskatchewan
Health

Vital Statistics

Saskatchewan Accident Statistics

1989

Saskatchewan

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INTRODUCTION

The annual toll taken by accidents in terms of both deaths and injuries has only relatively recently come to the attention of the public. Accidents are a significant cause of death and disability for nearly all age groups, and in some age groups accidents represent the leading cause of death and hospital admission. The purpose of this report is to provide a broad overview of accidents in Saskatchewan.

Saskatchewan Accident Statistics is an annual publication of the Department of Health and provides information concerning the entire population. Data have been presented in graphic form in addition to tabular form.

There are two sources of data available on accidents in Saskatchewan: Statistics Canada data on deaths (mortality), and Hospital Services Branch data on hospital admissions. Both of these data sources use the External Cause or "E" codes of the International Classification of Diseases to define accidents. Unfortunately, there are no data relating to visits made to either physicians' offices, emergency wards of hospitals (where no admission takes place), or other outpatient clinics. These omissions are a serious gap in the overall accident picture. Many minor and major accidents (e.g. a broken leg) may not result in hospital admission. Thus, it is not possible to present as complete a picture of morbidity as is desirable.

The first two sections of the report deal with mortality and hospital admissions, respectively. The third section focusses on motor vehicle accidents, while the fourth provides information on interprovincial comparisons. The final section lists population data from 1964 to 1991. Detailed listings of mortality and hospital data by individual "E" code can be found in Appendices A and B, respectively. Appendix C provides an explanation of the accident classifications ("E" code groupings) used in this report.

The mortality data are for the year 1989 and are "final". In years previous to 1982, preliminary data have been used. Because of the significant differences between the preliminary and final data, it was decided to no longer use preliminary data. Hospital data are for the fiscal year 1988-1989 (April 1, 1988 to March 31, 1989). Thus, the mortality and hospital data cover slightly different time periods. The next report will include 1990 mortality data and 1989-1990 hospital data.

Beginning in 1984-85, the collection of hospital admission/separation data was provided to the Hospital Services Branch through H.M.R.I. (Hospital Medical Records Institute). Statistics shown in this publication may vary from previous years due to this change in the methods of processing the data.

Should you have any questions or comments concerning the report, please contact:

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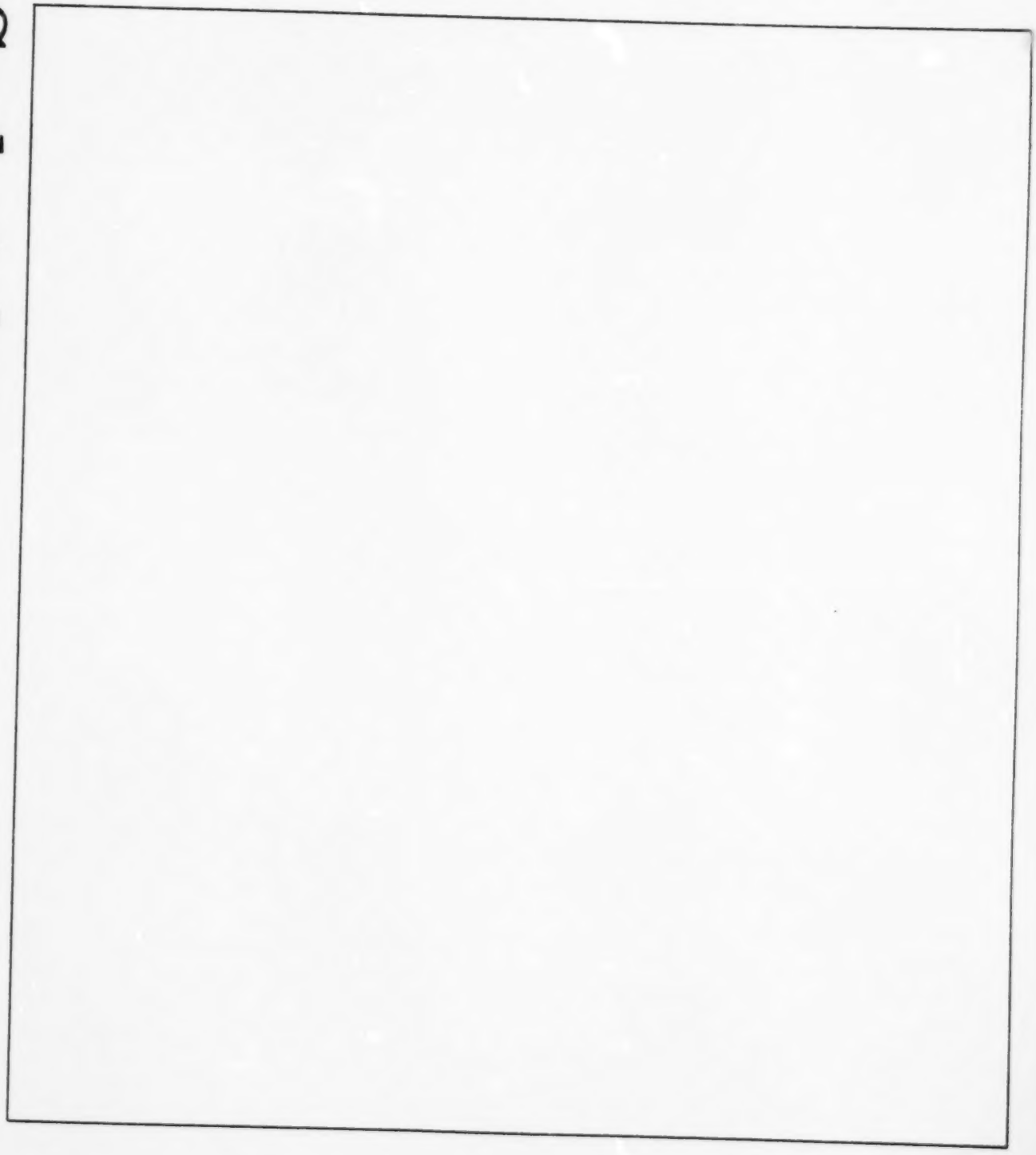
Mortality



Saskatchewan

TABLE 1

Mortality and Accidental Mortality in Saskatchewan
1950 - 1989

GROUP	CAUSE	1950		1960		1970		1980		1988		1989	
		Number	Rate+	Number	Rate+	Number	Rate+	Number	Rate+	Number	Rate+	Number	Rate+
Total Population	All Causes	6,243	749.4	6,878	750.6	7,472	794.0	7,651	796.1	8,100	801.0	7,920*	786.7
	Accidents	364	43.7	455	49.7	469	49.8	567	59.0	467	46.2	450	44.7
0 - 1	All Causes	690	3538.5	637	2687.8	386	2271.6	193	1155.7	140	838.3	134	807.2
	Accidents	27	138.5	26	109.7	19	117.3	6	35.9	1	6.0	3	18.1
1 - 4	All Causes	158	204.1	121	134.4	70	101.1	50	78.0	34	50.0	32	47.5
	Accidents	39	50.4	41	45.5	20	28.9	21	32.8	16	23.6	16	23.8
5 - 9	All Causes	72	89.4	47	45.0	40	38.6	32	41.4	24	28.9	17	20.7
	Accidents	17	21.1	18	17.2	15	14.5	22	28.5	18	21.7	12	14.6
10 - 14	All Causes	37	49.7	29	32.2	36	34.8	23	28.2	23	29.3	16	20.5
	Accidents	9	12.1	14	15.5	16	15.5	11	13.5	14	17.9	8	10.3
15 - 24	All Causes	150	109.1	131	101.6	197	118.8	230	123.5	154	98.7	126	84.1
	Accidents	52	37.8	72	55.8	117	70.6	150	80.5	85	54.5	68	45.4
25 - 64	All Causes	1,750	462.0	1,537	391.7	1,743	447.9	1,677	397.2	1,569	329.4	1,454	304.6
	Accidents	123	32.5	157	40.0	189	48.6	206	48.8	180	37.8	177	37.1
65 - 74	All Causes	1,551	3335.5	1,638	3114.1	1,421	2691.3	1,617	2364.0	1,756	2301.4	1,684	2189.8
	Accidents	43	92.5	43	81.7	28	53.0	49	71.6	46	60.3	48	62.4
75+	All Causes	1,835	9972.8	2,726	9026.5	3,596	8901.0	3,829	8546.9	4,400	7760.1	4,456	7630.1
	Accidents	54	293.5	83	274.8	65	160.9	102	227.7	107	188.7	118	202.1

Source: Statistics Canada

+Rate per 100,000 population (Statistics Canada Population)
*Includes one female - age not stated

TABLE 2

Accidental Mortality in Saskatchewan
Per Cent of Deaths Caused by Accidents
By Age Group, 1950 - 1989

Age Group	1950	1960	1970	1980	1988	1989
Total Population	5.8%	6.6%	6.3%	7.4%	5.8%	5.7%
0 - 1	3.9	4.1	5.2	3.1	0.7	2.2
1 - 4	24.7	33.9	28.6	42.0	47.1	50.0
5 - 9	23.6	38.3	37.5	68.7	75.0	70.6
10 - 14	24.3	48.3	44.4	47.8	60.9	50.0
15 - 24	34.7	54.9	59.4	65.2	55.2	54.0
25 - 64	7.0	10.2	10.8	12.3	11.5	12.2
65 - 74	2.8	2.6	2.0	3.0	2.6	2.9
75+	2.9	3.0	1.8	2.7	2.4	2.6

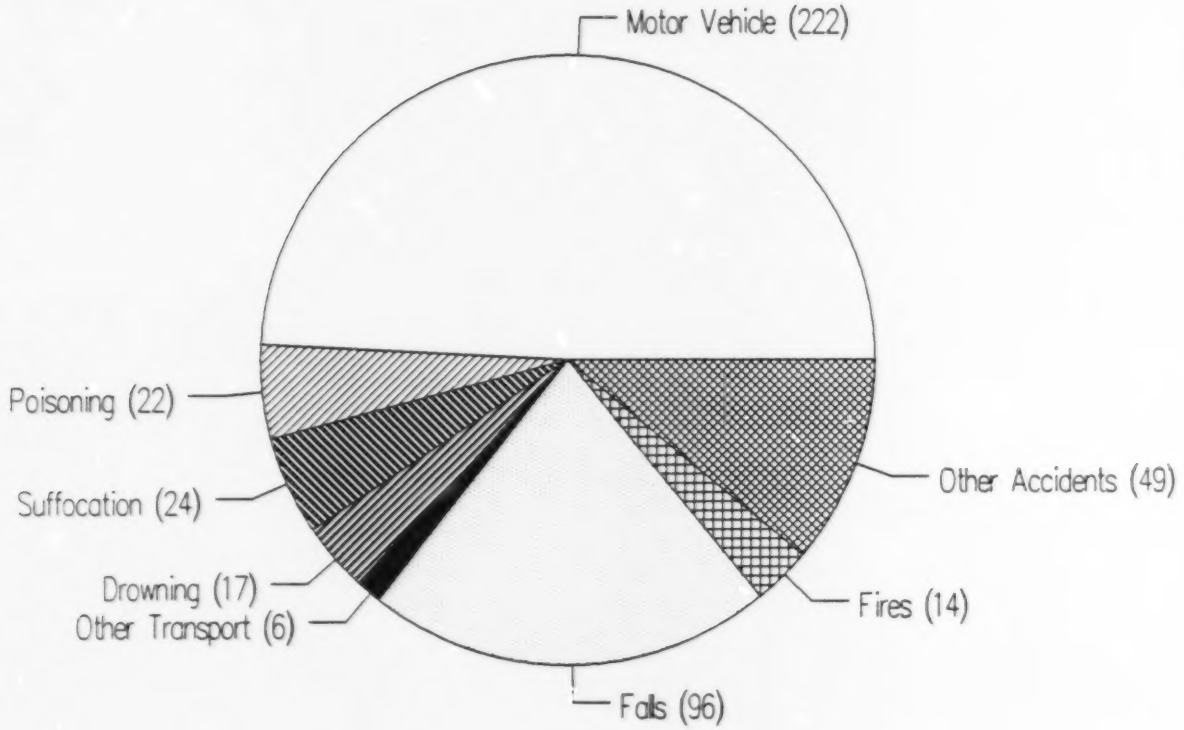
Source: Statistics Canada

In 1989, 450 people died because of accidents, representing 5.7% of all deaths occurring during the year. Table 1 illustrates trends in mortality from accidents and from all causes (including accidents) since 1950. The mortality rate for the entire population has increased over this period of time. Mortality rates for specific age groups, however, have decreased. The most dramatic decline is for those under one year of age. These increases and decreases have occurred at the same time due to changes in the age and sex structure of the population.

Table 2 shows the importance of accidents in mortality among various age groups. The significance of accidents has increased for all age groups with the exception of those under one year of age and those aged 75 and over. The apparent decline in the under 1 group is largely due to improved diagnosis. Prior to 1972, deaths from Sudden Infant Death Syndrome were included as suffocation in accident data.

FIGURE 1

NUMBER OF ACCIDENTAL DEATHS BY CAUSE
SASKATCHEWAN, 1989

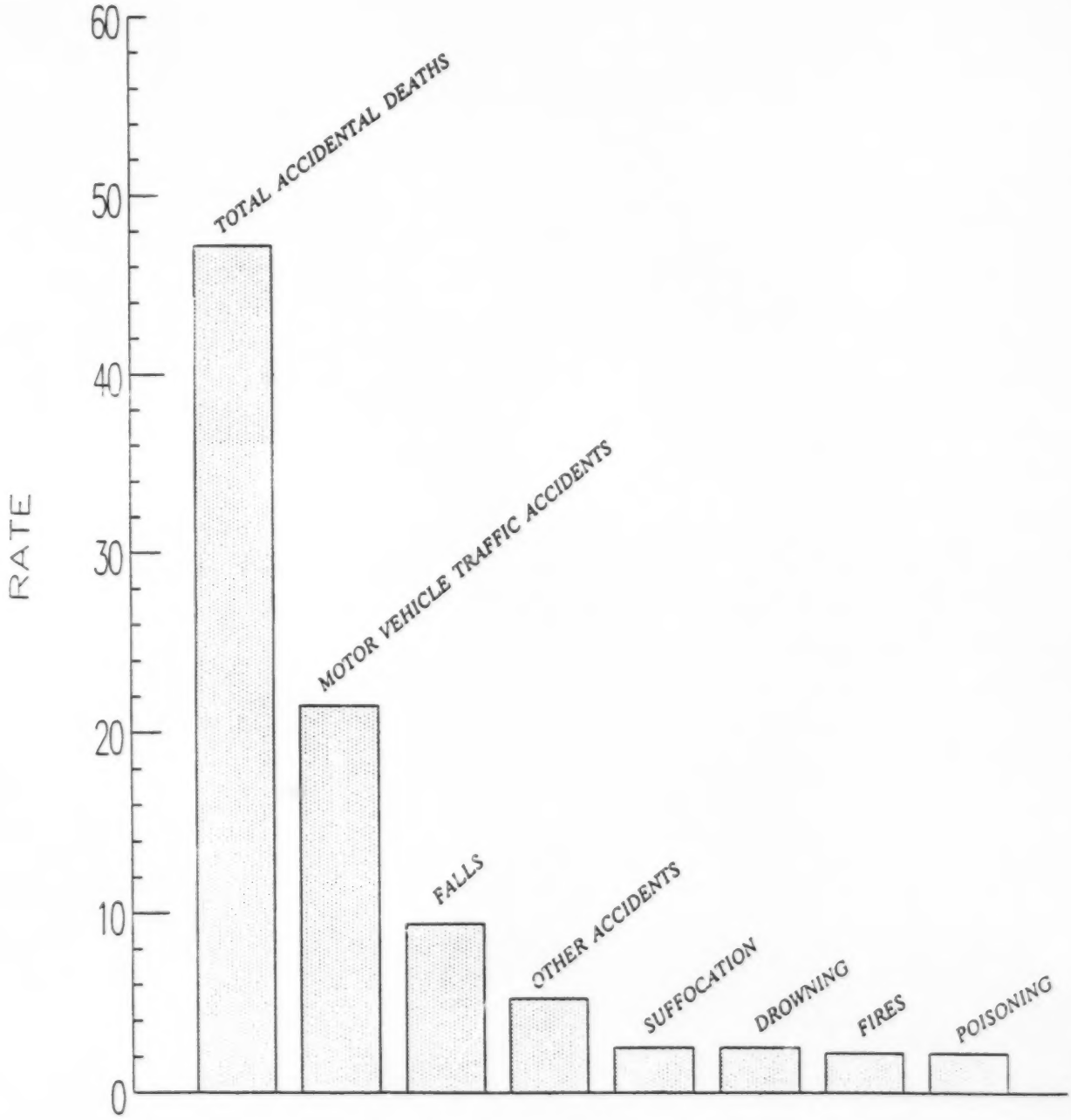


SOURCE: STATISTICS CANADA

This graph shows the relative significance of various types of accidents. The numbers indicate the number of deaths in 1989. Motor vehicle deaths represent 49.3% of the total. Falls, which are the second leading cause of accidental death, account for 21.3%. "Other Accidents" include a wide variety of events which cannot be readily categorized. Figure 2 details accident rates by types of accidents.

FIGURE 2

ACCIDENT MORTALITY RATES BY CAUSE SASKATCHEWAN, 3-YEAR AVERAGE, 1987-89



SOURCE: STATISTICS CANADA

TABLE 3

Accidental Deaths by Cause and Sex
Saskatchewan, 1981-1989

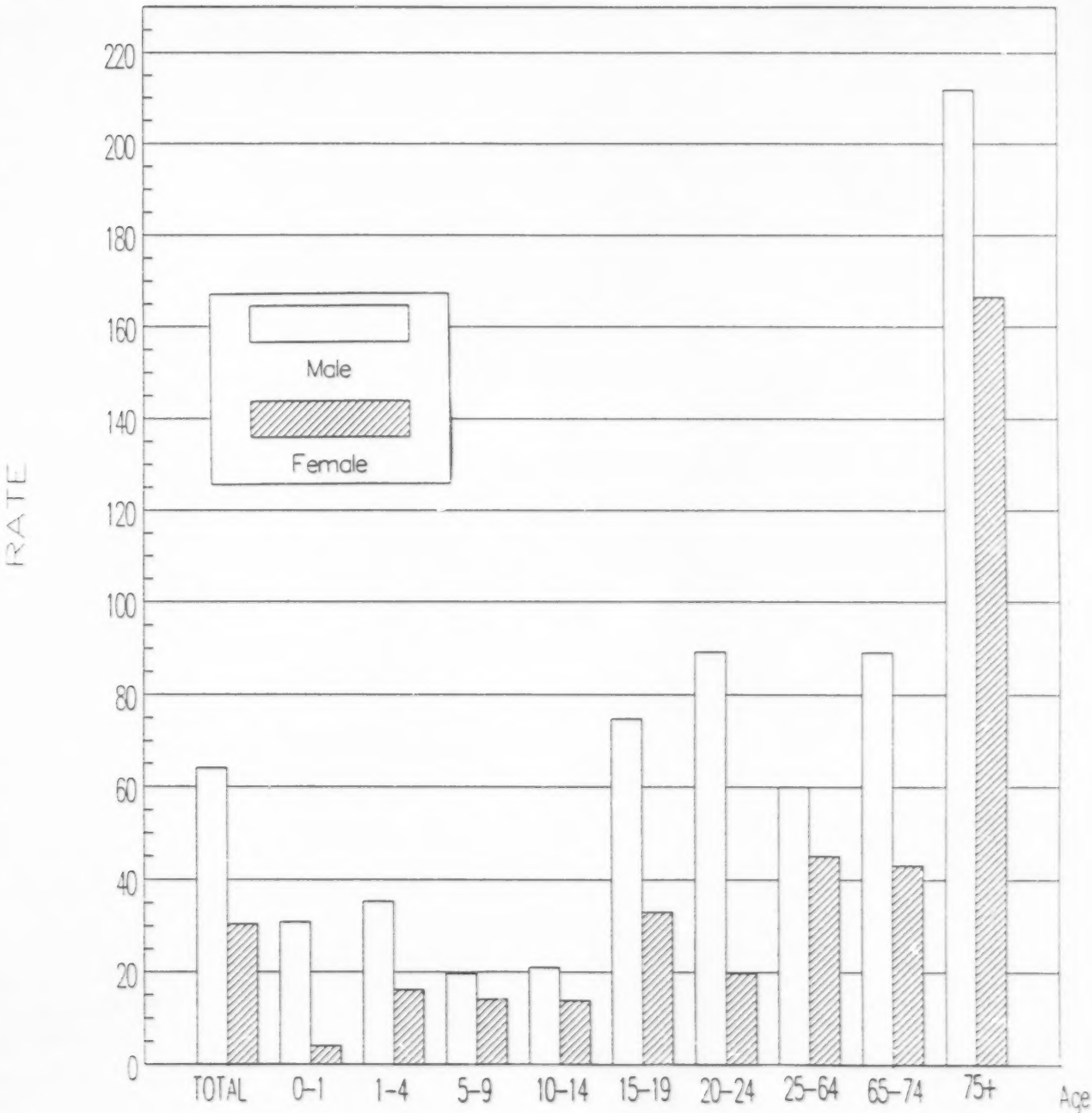
Cause of Death	Sex	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total Accidental Deaths	Total	528	531	469	476	482	502	515	467	450
	Male	403	379	336	325	334	348	358	314	298
	Female	125	152	133	151	148	154	157	153	152
Motor Vehicle Traffic Accidents	Total	265	239	226	222	209	245	241	202	209
	Male	211	179	171	158	145	181	172	138	142
	Female	54	60	55	64	64	64	69	64	67
Motor Vehicle Non-Traffic Accidents	Total	14	9	9	9	11	4	7	6	13
	Male	13	7	8	7	10	4	7	4	11
	Female	1	2	1	2	1	-	-	2	2
Other Transportation	Total	9	14	4	9	8	19	10	10	6
	Male	7	12	2	9	7	14	8	8	6
	Female	2	2	2	-	1	5	2	2	0
Fires	Total	32	36	31	23	23	17	32	20	14
	Male	24	25	21	17	21	14	21	15	13
	Female	8	11	10	6	2	3	11	5	1
Drowning	Total	30	22	20	23	25	22	29	28	17
	Male	24	21	17	20	17	19	28	26	15
	Female	6	1	3	3	8	3	1	2	2
Suffocation	Total	16	35	24	23	23	27	26	26	24
	Male	11	27	18	14	17	13	13	17	12
	Female	5	8	6	9	6	14	13	9	12
Poisoning	Total	18	27	30	23	28	23	30	16	22
	Male	9	16	20	16	16	17	22	11	14
	Female	9	11	10	7	12	6	8	5	8
Falls	Total	88	87	60	76	91	94	83	107	96
	Male	54	45	27	33	48	44	37	52	50
	Female	34	42	33	43	43	50	46	55	46
Other Accidents	Total	56	62	65	68	64	51	57	52	49
	Male	50	47	52	51	53	42	48	43	36
	Female	6	15	13	17	11	9	9	9	13

Source: Statistics Canada

This table shows differences between males and females by type of accident from 1981 to 1989. These data have remained fairly constant over this time period. Higher mortality for males can be found in nearly all accident categories. Differences are particularly evident in motor vehicle accidents, fires and drowning.

FIGURE 3

AGE AND SEX SPECIFIC RATES OF MORTALITY FROM ACCIDENTS SASKATCHEWAN, 1987 - 1989 AVERAGE



RATE PER 100,000 POPULATION (STATISTICS CANADA POPULATION)
SOURCE: STATISTICS CANADA

TABLE 4

Accident Mortality By Cause and Age Group
Saskatchewan, 1987-1989

Cause of Death	Total Population No.	Rate+	0-1 No.	Rate+	1-4 No.	Rate+	5-9 No.	Rate+	10-14 No.	Rate+	15-19 No.	Rate+	20-24 No.	Rate+	25-64 No.	Rate+	65-69 No.	Rate+	70-74 No.	Rate+	75-79 No.	Rate+	80+ No.	Rate+
Total Deaths																								
1987	515	50.8	5	29.2	21	30.5	12	14.5	19	24.3	51	65.6	53	62.3	209	44.1	25	60.8	29	82.2	21	81.7	70	240.5
1988	467	46.2	1	6.0	16	23.6	18	21.7	14	17.9	45	58.9	40	50.3	180	37.8	20	48.8	26	73.7	18	68.4	89	292.8
1989	450	44.7	3	18.1	16	23.8	12	14.6	8	10.3	29	38.7	39	52.0	177	37.1	31	74.7	17	48.0	27	99.0	91	292.6
3 Year Average	477	47.2	3	17.8	18	26.0	14	16.9	14	17.5	42	54.4	44	54.9	189	39.7	25	61.4	24	68.0	22	83.0	83	275.3
Motor Vehicle Traffic																								
1987	241	23.8	1	5.8	6	8.7	7	8.4	11	14.1	41	52.8	42	49.4	96	20.3	8	19.5	12	33.9	7	27.2	10	34.4
1988	202	20.0	-	-	3	4.4	6	7.2	8	10.2	32	41.9	32	40.2	84	17.6	11	26.8	10	28.3	4	15.2	12	39.5
1989	209	20.8	1	6.0	2	3.0	6	7.3	6	7.7	22	29.4	24	32.0	99	20.7	17	41.0	11	31.1	12	44.0	9	28.9
3 Year Average	217	21.5	*	3.9	4	5.4	6	7.6	8	10.7	32	41.4	33	40.5	93	19.5	12	29.1	11	31.1	8	28.8	10	34.3
Motor Vehicle Non-Traffic																								
1987	7	*	-	-	-	-	-	-	-	-	2	2.6	-	-	4	*	1	2.4	-	-	-	-	-	-
1988	6	*	-	-	1	1.5	-	-	1	1.3	1	1.3	1	1.3	2	*	-	-	-	-	-	-	-	-
1989	13	1.3	-	-	2	3.0	1	1.2	1	1.3	2	2.7	3	4.0	2	*	1	2.4	-	-	-	-	1	3.2
3 Year Average	9	*	-	-	1	1.5	*	*	*	*	2	2.2	1	1.8	3	*	*	1.6	-	-	-	-	*	1.1
Other Transport																								
1987	10	1.0	-	-	-	-	-	-	-	-	1	1.3	1	1.2	7	1.5	-	-	-	-	-	-	1	3.4
1988	10	1.0	-	-	-	-	1	1.2	-	-	-	-	-	-	8	1.7	-	-	-	-	-	-	1	3.3
1989	6	*	-	-	-	-	-	-	-	-	-	-	-	-	5	1.1	1	2.4	-	-	-	-	-	-
3 Year Average	9	*	-	-	-	-	*	*	-	-	*	*	*	*	7	1.4	*	*	-	-	-	-	*	2.2
Fires																								
1987	32	3.2	-	-	8	11.6	3	3.6	3	3.8	2	2.6	2	2.4	8	1.7	2	4.9	-	-	2	7.8	2	6.9
1988	20	2.0	-	-	1	1.5	6	7.2	-	-	-	-	-	-	9	1.9	1	2.4	1	2.8	1	3.8	1	3.3
1989	14	1.4	-	-	1	1.5	-	-	-	-	-	-	2	2.7	9	1.9	-	-	-	-	1	3.7	1	3.2
3 Year Average	22	2.2	-	-	3	4.9	3	3.6	1	1.3	*	*	1	1.7	9	1.8	1	2.4	*	*	1	5.1	1	4.5
Drowning																								
1987	29	2.9	1	5.8	3	4.4	2	2.4	-	-	1	1.3	1	1.2	21	4.4	-	-	-	-	-	-	-	-
1988	28	2.8	1	6.0	5	7.4	4	4.8	2	2.6	2	2.6	-	-	14	3.0	-	-	-	-	-	-	-	-
1989	17	1.7	-	-	5	7.4	2	2.4	-	-	-	-	2	2.7	5	1.1	2	4.8	-	-	-	-	1	3.2
3 Year Average	25	2.5	*	3.9	4	6.4	3	3.2	*	*	1	1.3	1	1.3	13	2.8	*	1.6	-	-	-	-	*	1.1

Cause of Death	Total Population		0-1		1-4		5-9		10-14		15-19		20-24		25-64		65-69		70-74		75-79		80+	
	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+
Suffocation																								
1987	26	2.6	2	11.7	3	4.4	-	-	1	1.3	1	1.3	-	-	6	1.3	3	7.3	3	8.5	2	7.8	5	17.2
1988	26	2.6	-	-	1	1.5	-	-	2	2.6	1	1.3	1	1.3	9	1.9	1	2.4	6	17.0	2	7.6	3	9.9
1989	24	2.4	1	6.0	3	4.5	1	1.2	-	-	1	1.3	-	-	6	1.3	-	-	4	11.3	1	3.7	7	22.5
3 Year Average	25	2.5	1	5.9	2	3.5	*	*	1	1.3	1	1.3	*	*	7	1.5	1	3.2	4	12.3	2	6.4	5	16.5
Poisoning																								
1987	30	2.9	-	-	-	-	-	-	1	1.3	2	2.6	2	2.4	23	4.9	1	2.4	1	2.8	-	-	-	-
1988	16	1.6	-	-	1	1.5	-	-	-	-	-	-	2	2.5	12	2.5	-	-	1	2.8	-	-	-	-
1989	22	2.2	-	-	-	-	-	-	-	-	1	1.3	3	4.0	15	3.1	3	7.2	-	-	-	-	-	-
3 Year Average	23	2.2	-	-	*	*	-	-	*	*	1	1.3	2	3.0	17	3.5	1	3.2	*	1.9	-	-	-	-
Falls																								
1987	83	8.2	-	-	-	-	-	-	-	-	-	-	1	1.2	11	2.3	6	14.6	10	28.3	9	35.0	46	158.1
1988	107	10.6	-	-	3	4.4	-	-	-	-	-	-	1	1.3	16	3.4	4	9.8	5	14.2	9	34.2	69	227.0
1989	96	9.5	1	6.0	2	3.0	-	-	-	-	1	1.3	-	-	14	2.9	3	7.2	1	2.8	10	36.6	64	205.8
3 Year Average	95	9.4	*	2.0	2	2.5	-	-	-	-	*	*	*	*	14	2.9	4	10.5	5	15.1	9	35.3	60	197.0
Other Accidents																								
1987	57	5.6	1	5.8	1	1.5	-	-	3	3.8	1	1.3	4	4.7	33	6.9	4	9.7	3	8.5	1	3.8	6	20.6
1988	52	5.1	-	-	1	1.5	1	1.2	1	1.3	9	11.8	3	3.8	26	5.5	3	7.2	3	8.5	2	7.3	3	9.7
1989	49	4.9	-	-	1	1.5	2	2.4	1	1.3	2	2.7	5	6.7	22	4.6	4	9.6	1	2.8	3	11.0	8	25.7
3 Year Average	53	5.2	*	1.9	1	1.5	1	1.2	2	2.1	4	5.3	4	5.1	27	5.7	4	8.8	2	6.6	2	7.4	7	18.7

Source: Statistics Canada

+Rate per 100,000 population

*Less than 1

This table presents three years' data by age group and by type of accident. Because the number of events occurring within a particular category may fluctuate considerably from one year to the next, a 3 year average is shown. The types of accidents from which deaths result vary from one age group to another. For those under one year of age suffocation and motor vehicle accidents are most common. Motor vehicle accidents are a leading cause of accidental death for all age groups. Falls are the leading cause of accidental death for those aged 80 and over. The differences between age groups are due to a large number of factors including development, activities and health status.

TABLE 5

Selected Causes of Death Due to Accidental Injury
by Place of Occurrence, Saskatchewan, 1989

Type of Accidental Death	Home	Farm	Mine & Quarry	Industrial	Recreation & Sport	Street & Highway	Public Building	Residential Institution	Other Specified	Unspecified	Total
Accidental Poisoning By Drugs, Medicaments and Biologicals	5	-	-	-	-	-	1	-	-	-	6
Accidental Poisoning By Other Solid & Liquid Substances, Gases & Vapours	9	2	1	2	-	-	-	-	-	2	16
Accidental Falls	51	2	-	2	-	3	-	21	-	17	96
Accidents Caused By Fire & Flames	11	-	-	-	-	-	1	-	1	-	13
Accidents Due to Natural and Environmental Factors	2	1	-	-	-	1	-	-	2	5	11
Submersion, Suffocation & Foreign Bodies	10	2	-	1	-	-	1	4	10	11	39
Other Accidents	4	15	1	2	-	2	-	-	2	3	29
Total	92	22	2	7	-	6	3	25	15	38	210

Source: Statistics Canada

A limited amount of data is available on where deaths caused by accidents occurred. Unfortunately in many cases the location is not specified (the proportion varies with each type of accidental death). Motor vehicle and other transportation accidental deaths are not included in these data.

It is interesting to note that almost half of the deaths occurred in the home. Deaths caused by falls, which account for approximately one half of the deaths due to accidental injury, occur predominately in the home and in residential institutions. If these data were broken down by age they would likely reveal where different age groups spend much of their time, and where they are "exposed" to the danger of certain types of accidents resulting in death.

Saskatchewan Health

Hospital Admissions

Saskatchewan

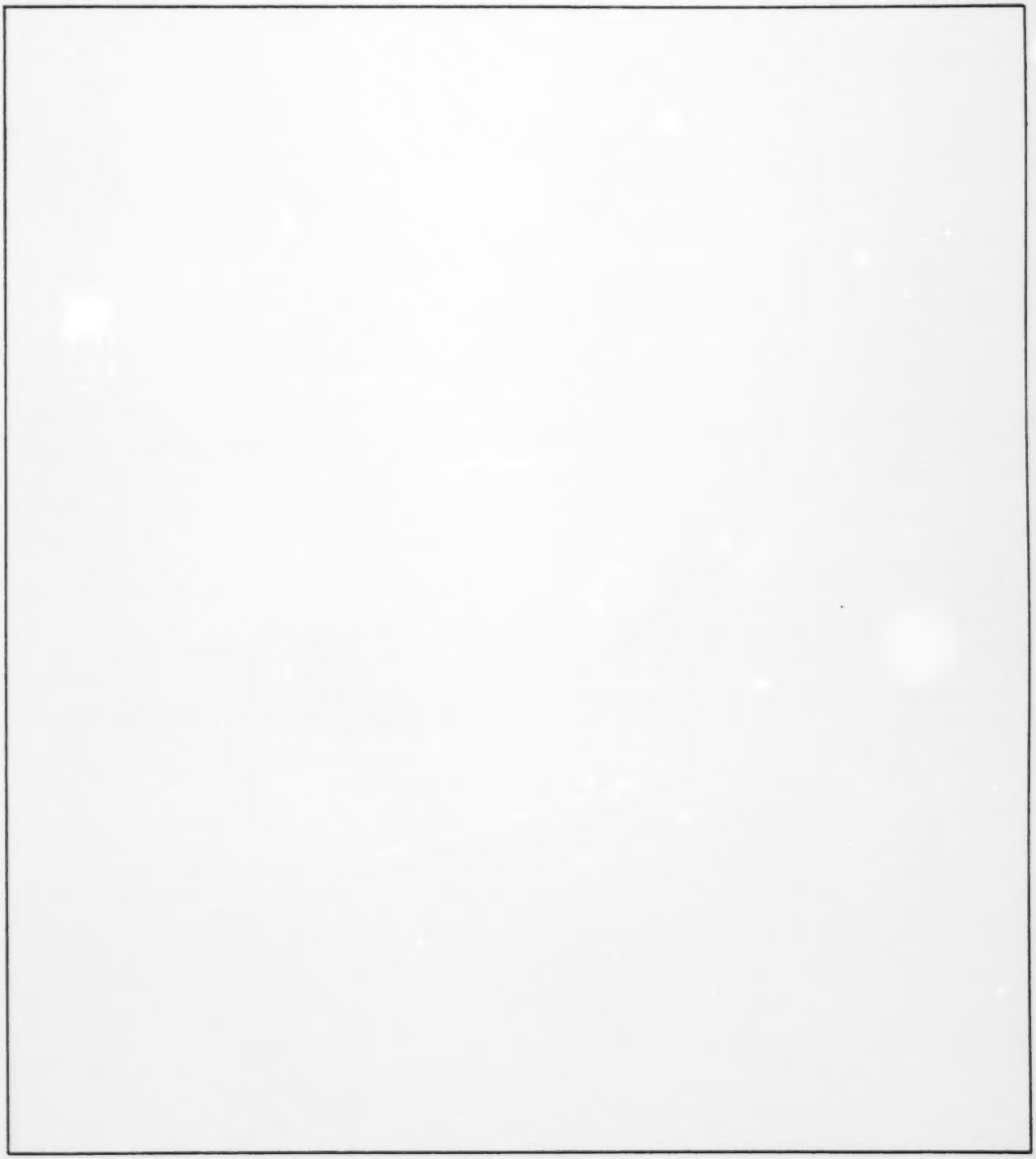


TABLE 6

Hospital Separations, Patient Days and Average Days of Stay Saskatchewan, 1985-86 to 1988-89

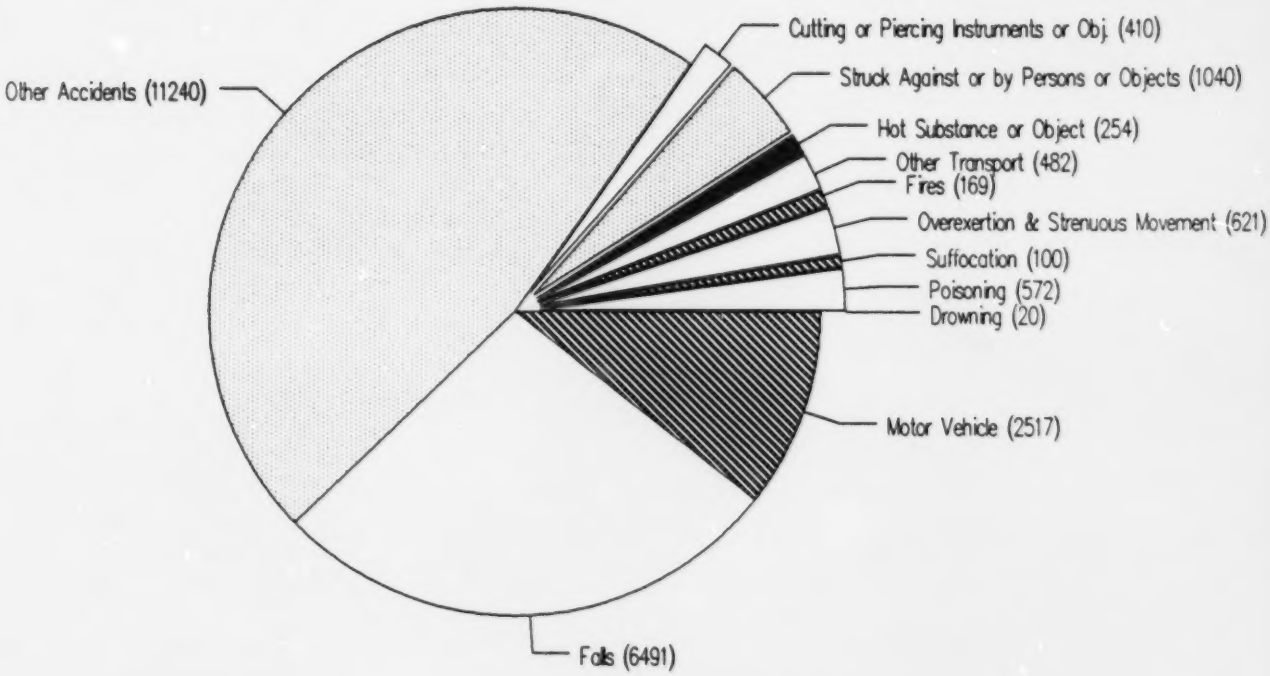
	1985-86	1986-87	1987-88	1988-89
Total Population*	1,039,249	1,041,358	1,045,440	1,044,151
Separations - All Causes	219,901	224,189	221,154	222,126
Separations Per 1,000 Population	211.6	215.3	211.5	212.7
Separations Due To Accidental Injuries	21,387	22,879	24,295	23,916
Separations Per 1,000 Population	20.6	21.9	23.2	22.9
Per Cent of Total Separations Due to Accidental Injuries	9.7	10.2	11.0	10.8
Patient Days - All Causes	1,653,725	1,657,878	1,604,655	1,599,168
Average Length of Stay	7.5	7.4	7.3	7.2
Patient Days - Accidental Injuries	181,773	199,736	256,482	248,128
Average Length of Stay	8.5	8.7	10.6	10.4
Per Cent of Total Patient Days Due to Accidental Injury	11.0	12.1	15.9	15.5

*Health Insurance Registration Covered Population
Source: Hospital Services Branch

In 1988-89 there were 23,916 people admitted to a hospital because of accidental injuries. As noted in the Introduction, hospital separations only provide a partial picture of accidental injuries. In Table 6 hospital data are shown for the years 1985-86 to 1988-89. The total number of separations in 1988-89 was higher than the previous year, but there is no clear trend evident in separations per 1,000 population for accidental injuries. The average length of stay is an indicator of severity of injury. Once again no trend is evident. Medical practice has changed over the years, and as a result many injuries which would previously have required a hospital stay are now treated on an outpatient basis.

FIGURE 4

NUMBER OF HOSPITAL SEPARATIONS BY TYPE OF ACCIDENT SASKATCHEWAN, 1988-89



SOURCE: HOSPITAL SERVICES BRANCH

Figure 4 shows the proportion of separations for various types of accidents. These data are quite different from the mortality data. Falls accounted for 27.1% of all separations due to accidents, while motor vehicle accidents accounted for only 10.5%. Suffocation and drowning are significant causes of death but not hospital admissions. In both cases an event may result in either death or simply a "close call" requiring only minimal treatment. Two categories which do not appear in mortality data are "Struck Against" and "Overexertion. Both of these categories are likely related to sports and recreation accidents.

TABLE 7

Age and Sex Specific Rates of Hospitalization
Due to Accidental Injury, Saskatchewan, 1988-89

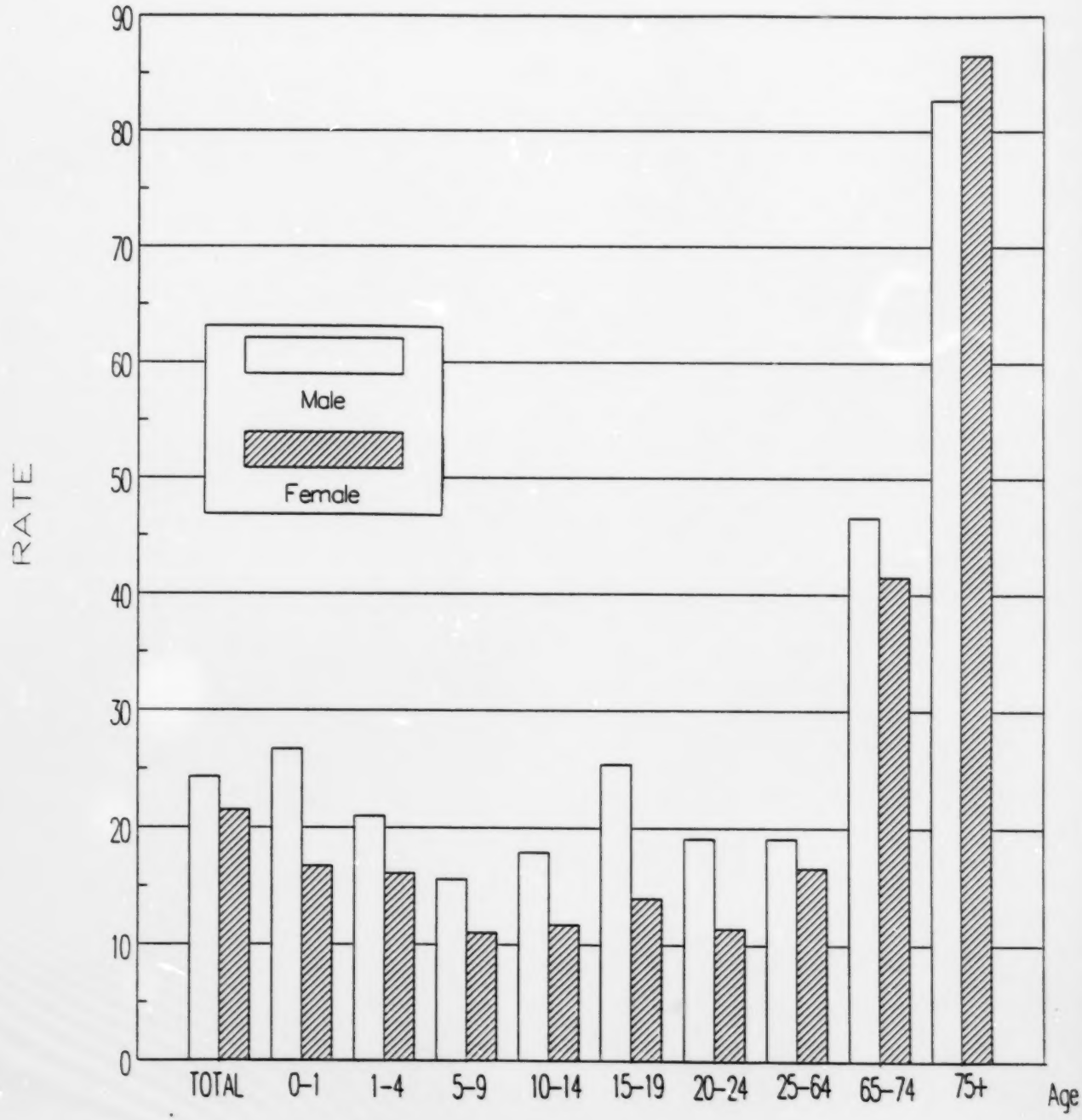
	Total	0-1	1-4	5-9	10-14	15-19	20-24	25-64	65-74	75+
Covered Population[1]										
Both Sexes	1,044,151	15,318	69,985	85,457	79,465	79,616	86,450	493,747	77,095	57,018
Male	523,927	7,871	35,814	43,843	40,561	40,630	44,406	250,771	36,002	24,029
Female	520,224	7,447	34,171	41,614	38,904	38,986	42,044	242,976	41,093	32,989
Admissions										
Both Sexes	23,916	334	1,302	1,142	1,184	1,577	1,328	8,819	3,386	4,844
Male	12,711	210	752	684	727	1,030	848	4,793	1,679	1,988
Female	11,205	124	550	458	457	547	480	4,026	1,707	2,856
Admissions Per 1,000 Covered Population										
Both Sexes	22.9	21.8	18.6	13.4	14.9	19.8	15.4	17.9	43.9	85.0
Male	24.3	26.7	21.0	15.6	17.9	25.4	19.1	19.1	46.6	82.7
Female	21.5	16.7	16.1	11.0	11.7	14.0	11.4	16.6	41.5	86.6
Patient Days										
Both Sexes	248,128	2,304	5,131	4,162	5,754	6,820	8,414	77,813	51,672	86,058
Male	122,742	1,413	3,231	2,552	4,043	4,485	5,391	42,443	25,492	33,692
Female	125,386	891	1,900	1,610	1,711	2,335	3,023	35,370	26,180	52,366
Days Per 1,000 Covered Population										
Both Sexes	237.6	150.4	73.3	48.7	72.4	85.7	97.3	157.6	670.2	1509.3
Male	234.3	179.5	90.2	58.2	99.7	110.4	121.4	169.3	708.1	1402.1
Female	241.0	119.6	55.6	38.7	44.0	59.9	71.9	145.6	637.1	1587.4
Average Days of Stay										
Both Sexes	10.3	6.9	3.9	3.6	4.9	4.3	6.3	8.8	15.3	17.8
Male	9.7	6.7	4.3	3.7	5.6	4.4	6.4	8.9	15.2	16.9
Female	11.2	2.7	3.5	3.5	3.7	4.3	6.3	8.8	15.3	18.3

[1]Health Insurance Registration Covered Population
Source: Hospital Services Branch

Hospitalization due to accidental injury varies with both age and sex. In Table 7 these variations are shown. Males are more frequently admitted in all age groups with the exception of those aged 65 and over. The high admission rate for elderly women is likely due to the disproportionate number of very elderly women (85 and over) in the 65 and over age group. As expected, the average length of stay is considerably higher for the elderly than for the rest of the population. Figure 5 provides age and sex rates of hospitalization in graphic form.

FIGURE 5

AGE AND SEX SPECIFIC RATES OF HOSPITALIZATION FROM ACCIDENTS SASKATCHEWAN, 1988-89



RATE PER 1,000 POPULATION (HIR COVERED POPULATION)
SOURCE: HOSPITAL SERVICES BRANCH

TABLE 8

Hospital Separations, Patient Days and Average Days of Stay by Type of Accident, 1985-86 to 1988-89

Type of Accident	1985-86	1986-87	1987-88	1988-89
FALLS:				
Separations	6,215	6,027	6,182	6,491
Patient Days	64,811	62,119	72,665	70,157
Average Days of Stay	10.43	10.31	11.75	10.80
MOTOR VEHICLE ACCIDENTS:				
Separations	2,570	2,771	2,780	2,517
Patient Days	17,838	20,600	20,219	18,279
Average Days of Stay	6.94	7.43	7.27	7.26
STRUCK AGAINST OR BY PERSONS OR OBJECTS:				
Separations	1,066	1,146	1,083	1,040
Patient Days	3,421	3,728	3,541	3,351
Average Days of Stay	3.21	3.25	3.27	3.22
POISONING:				
Separations	779	750	727	572
Patient Days	1,934	1,952	2,141	1,528
Average Days of Stay	2.48	2.60	2.94	2.67
OTHER TRANSPORTATION:				
Separations	493	507	621	482
Patient Days	1,684	2,370	2,486	1,659
Average Days of Stay	3.42	4.67	4.00	3.44
CUTTING OR PIERCING INSTRUMENTS OR OBJECTS:				
Separations	457	432	429	410
Patient Days	1,469	1,476	1,749	1,716
Average Days of Stay	3.21	3.42	4.08	4.19
HOT SUBSTANCE OR OBJECT:				
Separations	213	230	247	254
Patient Days	2,037	2,053	2,825	2,594
Average Days of Stay	9.56	8.93	11.44	10.21
OVEREXERTION AND STRENUOUS MOVEMENT:				
Separations	549	605	658	621
Patient Days	2,648	2,981	3,227	3,525
Average Days of Stay	4.82	4.93	4.90	5.68

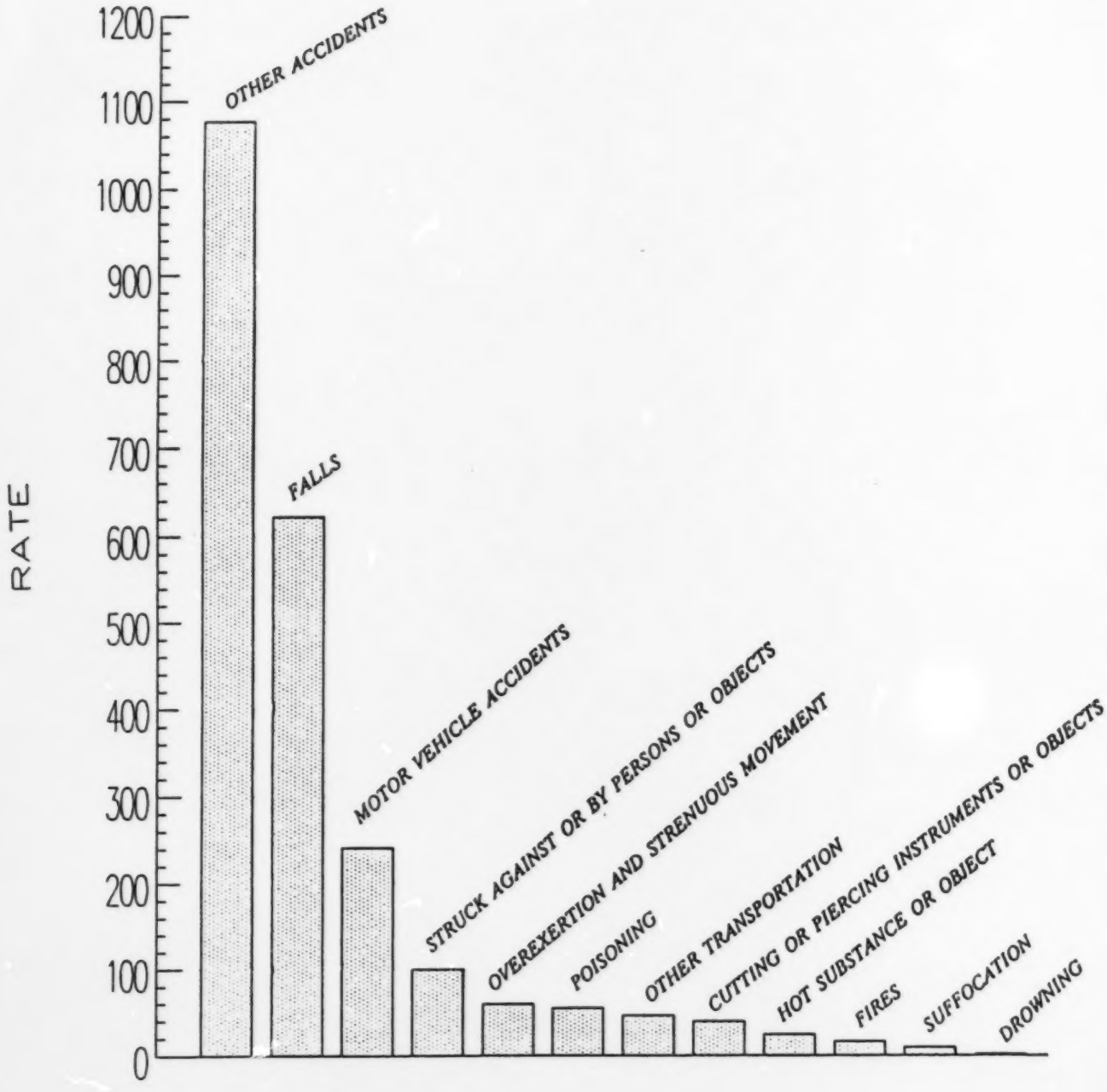
	1985-86	1986-87	1987-88	1988-89
FIRES:				
Separations	135	154	161	169
Patient Days	1,451	1,502	1,906	1,811
Average Days of Stay	10.75	9.75	11.84	10.72
DROWNING:				
Separations	16	22	22	20
Patient Days	171	213	50	95
Average Days of Stay	10.69	9.68	2.27	4.75
SUFFOCATIONS:				
Separations	107	124	122	100
Patient Days	360	516	675	792
Average Days of Stay	3.36	4.16	5.53	7.92
OTHER ACCIDENTS:				
Separations	8,787	10,111	11,263	11,240
Patient Days	83,949	100,226	144,998	142,621
Average Days of Stay	9.55	9.91	12.87	12.69
TOTAL ACCIDENTS:				
Separations	21,387	22,879	24,295	23,916
Patient Days	181,773	199,736	256,482	248,128
Average Days of Stay	8.50	8.73	10.56	10.37

Source: Hospital Services Branch

The number of separations and the average length of stay varies with different types of accidents. In Table 8 these data are presented for the years 1985-86 to 1988-89. The longest average length of stay is for other accidents, followed by falls. Fires also have a long length of stay, many of which who sustain more serious injuries and require a longer recovery period. The number of separations in the various accident categories has remained relatively constant.

FIGURE 6

RATE OF HOSPITALIZATION DUE TO ACCIDENTAL INJURY BY CAUSE, SASKATCHEWAN, 1988-89



SOURCE: HOSPITAL SERVICES BRANCH
RATE PER 100,000 POPULATION

TABLE 9

Selected Causes of Hospitalization Due to Accidental Injury By Place of Occurrence, Saskatchewan, 1988-89

Type of Accident	Home		Farm		Mine & Quarry		Industrial		Recreation & Sport		Street & Highway		Public Building		Residential Institution		Other Specified		Unspecified	
	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days
Accidental Poisoning By Drugs, Medicaments and Biologicals	218	432	1	1	1	1	-	-	1	1	-	-	2	3	10	140	2	22	97	372
Accidental Poisoning By Other Solid & Liquid Substances, Gases & Vapours	138	278	9	49	-	-	8	29	3	7	-	-	7	26	1	4	4	5	70	166
Accidental Falls	2592	27065	55	643	2	7	58	364	635	1983	370	2543	384	2426	954	22808	101	925	1340	11393
Accidents Caused By Fire & Flames	100	1118	11	192	-	-	2	7	2	47	1	1	1	3	2	5	9	69	41	369
Accidents Due to Natural and Environmental Factors	113	769	49	247	-	-	4	21	12	48	27	242	1	4	1	4	22	190	193	1139
Submersion, Suffocation & Foreign Bodies	146	380	8	30	-	-	6	24	9	35	-	-	8	13	40	590	3	4	97	497
Other Accidents	908	5682	201	1107	5	18	126	691	725	1863	29	266	107	425	68	1412	68	406	1138	6257

Source: Hospital Services Branch

A limited amount of data is available on where accidents occurred. Unfortunately in many cases the location is not specified (the proportion varies with each type of accident). Motor vehicle and other transportation accidents are not included in these data.

It is interesting to note that most poisonings occur at home. Falls, however, occur in virtually all locations. If these data were broken down by age they would likely reveal where different age groups spend much of their time, and where they are "exposed" to the danger of certain types of accidents.

TABLE 10

Hospital Separation and Patient Days for Leading Accident Classifications by Age Groups, Saskatchewan, 1988-89

Type of Accident	Total		0 - 1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 64		65 - 74		75+	
	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+
Falls																				
- Separations	6491	6.2	108	7.1	346	4.9	502	5.9	353	4.4	219	2.8	165	1.9	1632	3.3	847	11.0	2319	40.7
- Patient Days	70157	67.2	313	20.4	862	12.3	1143	13.4	1965	24.7	601	7.5	778	9.0	11272	22.8	11346	147.2	41877	734.5
- Average Days of Stay	10.8		2.9		2.5		2.3		5.6		2.7		4.7		6.9		13.4		18.1	
Motor Vehicle Accidents																				
- Separations	2517	2.4	4	0.3	77	1.1	122	1.4	194	2.4	511	6.4	373	4.3	957	1.9	152	2.0	127	2.2
- Patient Days	18279	17.5	12	0.8	523	7.5	630	7.4	1293	16.3	2592	32.6	2717	31.4	7114	14.4	1597	20.7	1801	31.6
- Average Days of Stay	7.3		3.0		6.8		5.2		6.7		5.1		7.3		7.4		10.5		14.2	
Struck Against or by Persons or Objects																				
- Separations	1040	1.0	4	0.3	34	0.5	84	1.0	183	2.3	230	2.9	124	1.4	334	0.7	22	0.3	25	0.4
- Patient Days	3351	3.2	11	0.7	230	3.3	314	3.7	352	4.4	490	6.2	317	3.7	1112	2.3	164	2.1	361	6.3
- Average Days of Stay	3.2		2.8		6.8		3.7		1.9		2.1		2.6		3.3		7.5		14.4	
Poisoning																				
- Separations	572	0.5	18	1.2	298	4.3	22	0.3	27	0.3	24	0.3	15	0.2	107	0.2	25	0.3	36	0.6
- Patient Days	1528	1.5	41	2.7	414	5.9	32	0.4	57	0.7	97	1.2	25	0.3	366	0.7	130	1.7	366	6.4
- Average Days of Stay	2.7		2.3		1.4		1.5		2.1		4.0		1.7		3.4		5.2		10.2	
Other Transportation																				
- Separations	482	0.5	-	-	31	0.4	98	1.1	117	1.5	53	0.7	34	0.4	132	0.3	12	0.2	5	*
- Patient Days	1659	1.6	-	-	53	0.8	234	3.9	273	3.4	157	2.0	212	2.5	485	1.0	75	1.0	70	1.2
- Average Days of Stay	3.4		-		1.7		3.4		2.3		3.0		6.2		3.7		6.3		14.0	
Cutting or Piercing Instrument or Objects																				
- Separations	410	0.4	-	-	24	0.3	40	0.5	32	0.4	54	0.7	58	0.7	172	0.3	18	0.2	12	0.2
- Patient Days	1716	1.6	-	-	61	0.9	123	1.4	134	1.7	176	2.2	186	2.2	629	1.3	76	1.0	331	5.8
- Average Days of Stay	4.2		-		2.5		3.1		4.2		3.3		3.2		3.7		4.2		27.6	
Hot Substance or Object																				
- Separations	254	0.2	17	1.1	88	1.3	14	0.2	15	0.2	12	0.2	15	0.2	55	0.1	16	0.2	22	0.4
- Patient Days	2594	2.5	111	7.2	750	10.7	112	1.3	150	1.9	53	0.7	120	1.4	731	1.5	210	2.7	357	6.3
- Average Days of Stay	10.2		6.5		8.5		8.0		10.0		4.4		8.0		13.3		13.1		16.2	

Type of Accident	Total No.	Total Rate+	0 - 1 No.	0 - 1 Rate+	1 - 4 No.	1 - 4 Rate+	5 - 9 No.	5 - 9 Rate+	10 - 14 No.	10 - 14 Rate+	15 - 19 No.	15 - 19 Rate+	20 - 24 No.	20 - 24 Rate+	25 - 64 No.	25 - 64 Rate+	65 - 74 No.	65 - 74 Rate+	75+ No.	75+ Rate+
Overexertion and Strenuous Movement																				
- Separations	621	0.6	-	-	4	*	4	*	24	0.3	69	0.9	40	0.5	343	0.7	67	0.9	70	1.2
- Patient Days	3525	3.4	-	-	59	0.8	9	0.1	80	1.0	162	2.0	126	1.5	1481	3.0	579	7.5	1029	18.0
- Average Days of Stay	5.7		-		14.8		2.3		3.3		2.3		3.2		4.3		8.6		14.7	
Fires																				
- Separations	169	0.2	5	0.3	13	0.2	19	0.2	13	0.2	11	0.1	13	0.2	68	0.1	10	0.1	17	0.3
- Patient Days	1811	1.7	42	2.7	88	1.3	236	2.8	149	1.9	49	0.6	88	1.0	580	1.2	125	1.6	454	8.0
- Average Days of Stay	10.7		8.4		6.8		12.4		11.5		4.5		6.8		8.5		12.5		26.7	
Drowning																				
- Separations	20	*	1	*	3	*	4	*	1	*	1	*	1	*	3	*	4	*	2	*
- Patient Days	95	*	6	0.4	8	0.1	14	0.2	2	*	3	*	2	*	4	*	52	0.7	4	*
- Average Days of Stay	4.6		6.0		2.7		3.5		2.0		3.0		2.0		1.3		13.0		2.0	
Suffocation																				
- Separations	100	0.1	8	0.5	22	0.3	5	*	4	*	2	*	4	*	24	*	10	0.1	21	0.4
- Patient Days	792	0.8	13	0.8	49	0.7	19	0.2	9	0.1	3	*	5	*	131	0.3	283	3.7	280	4.9
- Average Days of Stay	7.9		1.6		2.2		3.8		2.3		1.5		1.3		5.5		28.3		13.3	
Other Accidents																				
- Separations	11240	10.8	169	11.0	362	5.2	228	2.7	221	2.8	391	4.9	486	5.6	4992	10.1	2203	28.6	2188	38.4
- Patient Days	142621	136.6	1755	114.6	2034	29.1	1196	14.0	1290	16.2	2437	30.6	3838	44.4	53908	109.2	37035	480.4	39128	686.2
- Average Days of Stay	12.7		10.4		5.6		5.2		5.8		6.2		7.9		10.8		16.8		17.9	
Total																				
- Separations	23916	22.9	334	21.8	1302	18.6	1142	13.4	1184	14.9	1577	19.8	1328	15.4	8819	17.9	3386	43.9	4844	85.0
- Patient Days	248128	237.6	2304	150.4	5131	73.3	4162	48.7	5754	72.4	6820	85.7	8414	97.3	77813	157.6	51672	670.2	86058	1509.3
- Average Days of Stay	10.4		6.9		3.9		3.6		4.9		4.3		6.3		8.8		15.3		17.8	

+ Rate per 1,000 Covered Population
* Less than 0.10
Source: Hospital Services Branch

This table provides detailed information on separations, patient days and average length of stay. These data also illustrate differences between age groups in regard to types of accidents. The separation rate per 1,000 population allows comparisons to be made between age groups. Accidents where there are few occurrences (e.g. drowning, suffocation), may vary considerably in frequency from one year to the next.

Saskatchewan Health

Vehicle Accidents

Saskatchewan

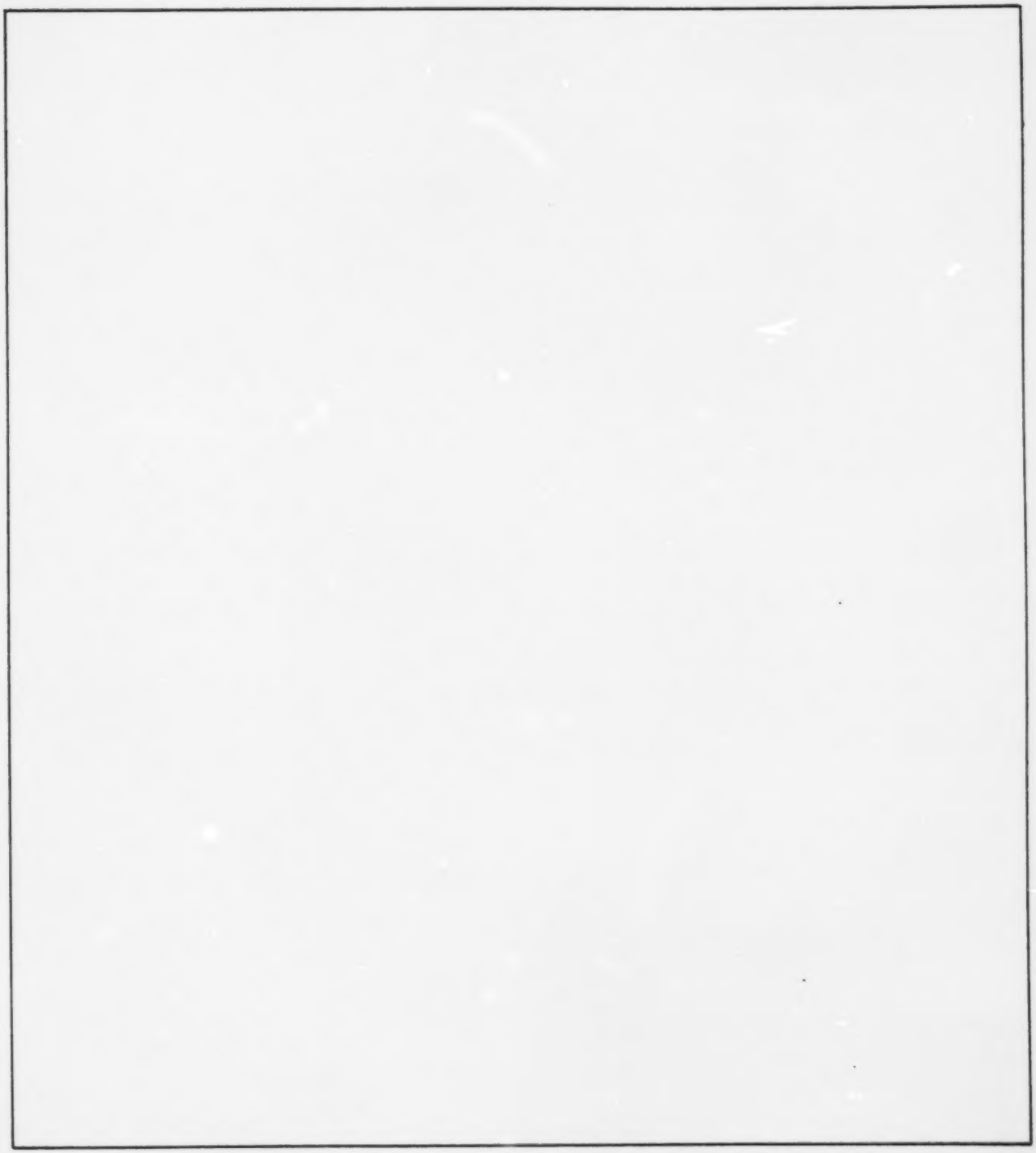


TABLE 11

Motor Vehicle Accident Mortality, Total Population By Age Group Saskatchewan, 1973-1989

Year	Under 15		15-24		25-64		65+		Total	
	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
1973	31	11.4	108	63.5	89	23.3	34	34.1	262	29.0
1974	40	15.3	110	62.6	116	30.2	30	29.9	296	32.9
1975	30	11.6	100	54.8	93	23.8	35	34.5	258	28.4
1976	24	9.3	92	48.5	128	32.0	34	32.9	278	30.2
1977	26	10.2	113	58.0	99	24.3	35	33.1	273	28.8
1978	30	12.0	86	43.6	110	26.5	31	28.6	257	26.8
1979	29	11.8	103	52.1	105	24.9	35	31.5	272	28.3
1980	19	7.8	108	54.9	95	22.1	34	29.8	256	26.4
1981	36	15.1	95	51.6	122	28.4	26	22.4	279	28.8
1982	24	9.9	94	51.9	92	20.9	38	31.8	248	25.3
1983	23	9.5	73	40.4	107	23.9	32	26.2	235	23.7
1984	26	10.5	67	35.8	112	23.9	26	20.9	231	22.4
1985	19	7.6	64	34.9	98	20.5	39	30.6	220	21.2
1986	26	10.6	88	52.5	103	22.0	32	24.9	249	24.7
1987	25	10.1	85	52.2	100	21.1	38	28.9	248	24.5
1988	19	7.7	66	42.3	86	18.1	37	27.8	208	20.6
1989	19	7.8	51	34.0	101	21.2	51	37.7	222	22.1

*Rate per 100,000 population.

Source: Statistics Canada

Overall, motor vehicle accidents result annually in the greatest number of accidental deaths. In 1989, 222 people died as a result of these accidents. The highest mortality rate for motor vehicle accidents is usually found in the 15-24 year age group. Mortality rates from 1973 to 1989 vary, but no clear trend is evident.

TABLE 12

Hospitalized Motor Vehicle and Other Road Vehicle Accident Cases, Patient Days and Rates per 100,000 Population*, Saskatchewan, 1988-89

Type and Cause of Accident	0-14			15-24			25-44			45-64			65+		
	No.	Average Days Stay	Rate	No.	Average Days Stay	Rate	No.	Average Days Stay	Rate	No.	Average Days Stay	Rate	No.	Average Days Stay	Rate
Motorcycle Accidents	19	6.3	7.6	77	9.8	46.4	37	7.6	11.8	3	14.0	1.7	-	-	-
Motor Vehicle Traffic Accidents	290	6.2	115.9	775	6.2	466.7	554	7.6	176.8	251	8.1	139.1	257	12.0	191.6
Collision with train	-	-	-	1	12.0	0.6	2	3.0	0.6	1	30.0	0.6	2	5.5	1.5
Collision of motor vehicle	46	6.5	18.4	156	8.7	93.9	135	6.3	43.1	72	7.8	39.9	64	9.7	47.7
Collision with bicycles	30	9.5	12.0	28	5.4	16.9	35	13.1	11.2	11	7.6	6.1	8	9.6	6.0
Collision with pedestrian	71	7.6	28.4	39	9.6	23.5	36	7.3	11.5	23	10.5	12.7	41	16.1	30.6
Collision with fixed object	5	4.8	2.0	33	3.8	19.9	20	6.7	6.4	7	16.7	3.9	6	8.8	4.5
Loss of control of motor vehicle	52	7.5	20.8	333	6.3	200.5	204	7.8	65.1	80	7.6	44.3	70	45.1	52.2
Other	86	2.9	34.4	185	3.8	111.4	122	5.8	38.9	57	6.9	31.6	66	12.1	49.2
Motor Vehicle Non-Traffic Accidents	107	6.3	42.8	109	4.4	65.6	107	5.8	34.1	45	10.4	24.9	22	14.8	16.4
Involving pedestrians	7	10.9	2.8	5	1.6	3.0	4	9.3	1.3	9	30.8	5.0	4	27.8	3.0
Other	100	5.9	40.0	104	4.5	62.6	103	5.7	32.9	36	5.4	19.9	18	11.9	13.4
Other Road Vehicle Accidents	221	2.7	88.3	70	2.6	42.2	81	2.9	25.8	38	5.8	21.1	15	9.0	11.2
Involving pedestrians	5	1.6	2.0	1	1.0	0.6	-	-	-	1	12.0	0.6	-	-	-
Injured while riding bicycle	161	2.2	64.3	29	2.8	17.5	23	2.1	7.3	12	5.4	6.7	9	10.7	6.7
Other	55	4.3	22.0	40	2.7	24.1	58	3.3	18.5	25	5.8	13.9	6	6.5	4.5

Source: Hospital Services Branch

*Rate per 100,000 population - 1988 HIR Covered Population - 0-14 - 250,225
15-24 - 166,066
25-44 - 313,349
45-64 - 180,398
65+ - 134,113

As noted earlier, motor vehicle and related accidents result in a significant number of hospital admissions. The type of accident, however, varies with different age groups. Thus, young children (0-14 years), for example, are much more likely to be injured while riding a bicycle, while motorcycle accidents are most common among 15-24 year olds. These differences are likely due to involvement in different activities and to experience.

Detailed information on traffic accidents is contained in Saskatchewan Traffic Accident Facts, published annually by the Department of Highways and Transportation.

Saskatchewan Health

Inter-Provincial Comparisons

Saskatchewan

TABLE 13 Accident Mortality Rates*, Canada and the Provinces, 1987-1989

	1987 Total	1988 Total	1989 Total
Canada	55.4	52.6	52.6
Newfoundland	36.3	39.1	38.2
Prince Edward Island	50.3	52.8	56.2
Nova Scotia	53.1	53.7	51.7
New Brunswick	54.8	60.0	56.0
Quebec	59.8	54.0	53.5
Ontario	47.0	46.7	47.3
Manitoba	58.8	56.1	54.3
Saskatchewan	67.9	63.6	60.8
Alberta	63.9	60.2	60.8
British Columbia	63.0	55.5	58.1
Yukon	139.3	130.4	86.3
Northwest Territories	104.4	117.8	145.6

Source: Statistics Canada
*Rate per 100,000 population

Includes all accidents and late effects ICD-9 Codes E800-E999 (including suicide and homicide).

In the table above accident mortality rates are shown for Canada and the provinces (these data include suicide and homicide). These rates vary enormously between the provinces, and furthermore, considerable variation can be found from one year to the next. Fluctuations are particularly evident in provinces with small populations. A province with a large population of people aged 15-24, for example, would likely have a high accident mortality rate.

While comparisons between provinces are difficult, Saskatchewan has tended to have a high accident mortality rate relative to other provinces. The Yukon and Northwest Territories frequently have rates more than double the Canadian average.

TABLE 14

Accident Mortality Rates* by Sex, Canada and the Provinces, 1987-1989

	1987			1988			1989		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Canada	78.2	33.3	55.4	74.5	31.3	52.6	73.6	32.3	52.6
Newfoundland	54.3	18.3	36.3	56.8	21.4	39.1	56.5	19.9	38.2
Prince Edward Island	71.3	29.6	50.3	73.7	32.3	52.8	84.1	30.0	56.2
Nova Scotia	76.9	30.1	53.1	79.3	29.0	53.7	77.2	27.0	51.7
New Brunswick	86.4	23.9	54.8	94.8	26.0	60.0	77.6	34.9	56.0
Quebec	86.2	34.5	59.8	77.0	31.9	54.0	77.6	30.3	53.5
Ontario	63.2	31.4	47.0	63.3	30.7	46.7	63.0	32.0	47.3
Manitoba	84.2	34.0	58.8	82.1	30.7	56.1	75.8	33.4	54.3
Saskatchewan	96.5	39.2	67.9	90.5	36.7	63.6	84.4	37.4	60.8
Alberta	92.0	35.4	63.9	87.5	32.6	60.2	84.4	36.9	60.8
British Columbia	89.2	37.4	63.0	79.2	32.2	55.5	82.2	34.5	58.1
Yukon	165.4	111.1	139.3	219.7	33.1	130.4	112.8	57.4	86.3
Northwest Territories	140.2	65.0	104.4	169.7	60.5	117.8	222.6	62.7	145.6

Source: Statistics Canada
*Rate per 100,000 population

Includes all accidents and late effects ICD-9 Codes E800-E999 (including suicide and homicide).

It has been noted earlier that accident mortality rates are significantly higher for males than for females. Table 14 illustrates these differences for Canada and the provinces. For Saskatchewan the rate for females is slightly above the Canadian average, while the rate for males is well above the average.

Saskatchewan Health

Population

Saskatchewan

Covered Population by Age Distribution, Saskatchewan
1964 - 1991

Year	Total	0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44
1964	935,005	22,093	90,206	109,794	98,483	83,794	58,578	50,691	52,432	54,445	55,544
1965	943,799	20,382	90,122	110,186	101,175	87,187	60,047	50,718	51,581	53,910	54,867
1966	951,434	19,501	88,576	110,431	103,520	89,834	61,904	51,634	51,034	53,344	54,621
1967	959,310	17,769	85,731	110,803	105,859	91,365	66,723	52,090	50,414	52,667	53,930
1968	962,376	17,810	80,704	111,198	106,789	93,276	69,444	53,710	49,829	51,977	53,600
1969	963,878	17,978	75,665	109,998	107,115	95,776	72,048	54,807	49,351	51,080	52,743
1970	948,370	16,891	70,150	105,993	106,132	97,109	71,126	53,281	47,748	49,121	51,753
1971	938,527	16,878	66,662	101,101	105,265	98,857	71,186	52,521	47,141	47,585	50,423
1972	934,607	15,774	65,424	95,788	104,274	100,636	71,443	54,785	46,696	46,444	49,291
1973	923,181	16,782	62,801	88,780	102,701	98,945	71,266	55,503	46,784	45,165	48,050
1974	922,487	14,394	61,905	83,968	101,655	99,900	75,882	58,181	47,579	44,620	47,170
1975	931,921	14,611	62,059	81,042	99,876	100,758	81,621	62,691	49,380	44,699	46,167
1976	949,463	16,061	62,886	80,686	97,405	101,330	88,331	68,049	51,796	45,880	45,839
1977	961,526	16,256	63,770	80,193	93,531	101,680	93,095	71,163	55,987	46,770	45,502
1978	970,510	16,235	64,327	80,125	89,099	101,916	95,526	74,739	59,152	48,165	45,224
1979	976,734	16,356	65,123	79,109	84,985	101,460	96,158	78,522	62,295	49,405	45,801
1980	982,257	15,610	65,901	78,957	81,844	99,942	96,438	82,381	65,675	50,722	45,173
1981	990,746	15,840	66,659	78,828	80,752	97,203	96,756	86,040	68,960	52,267	45,970
1982	1,000,667	16,160	67,645	79,833	80,118	93,409	97,019	89,216	70,976	56,219	46,647
1983	1,014,496	16,478	68,888	80,652	79,994	89,644	99,427	92,107	74,348	59,220	48,045
1984	1,028,965	16,778	70,424	82,293	79,306	86,175	101,099	94,167	78,450	62,806	49,636
1985	1,039,249	16,806	71,280	83,481	79,442	82,990	100,427	95,136	82,484	66,461	51,075
1986	1,041,358	16,745	71,289	84,127	78,640	81,419	96,692	95,199	85,161	68,911	52,293
1987	1,045,440	16,403	71,331	84,747	79,398	80,443	91,926	95,064	87,631	70,114	55,953
1988	1,044,151	15,318	69,985	85,457	79,465	79,616	86,450	94,369	88,597	72,282	58,101
1989	1,036,862	15,948	67,819	84,826	79,793	77,863	80,423	91,748	87,939	74,320	60,454
1990	1,029,352	15,718	66,422	84,300	79,769	76,601	75,447	87,679	86,733	76,601	62,844
1991	1,010,526	14,772	64,620	82,761	79,158	74,980	70,954	80,555	83,905	77,278	63,977

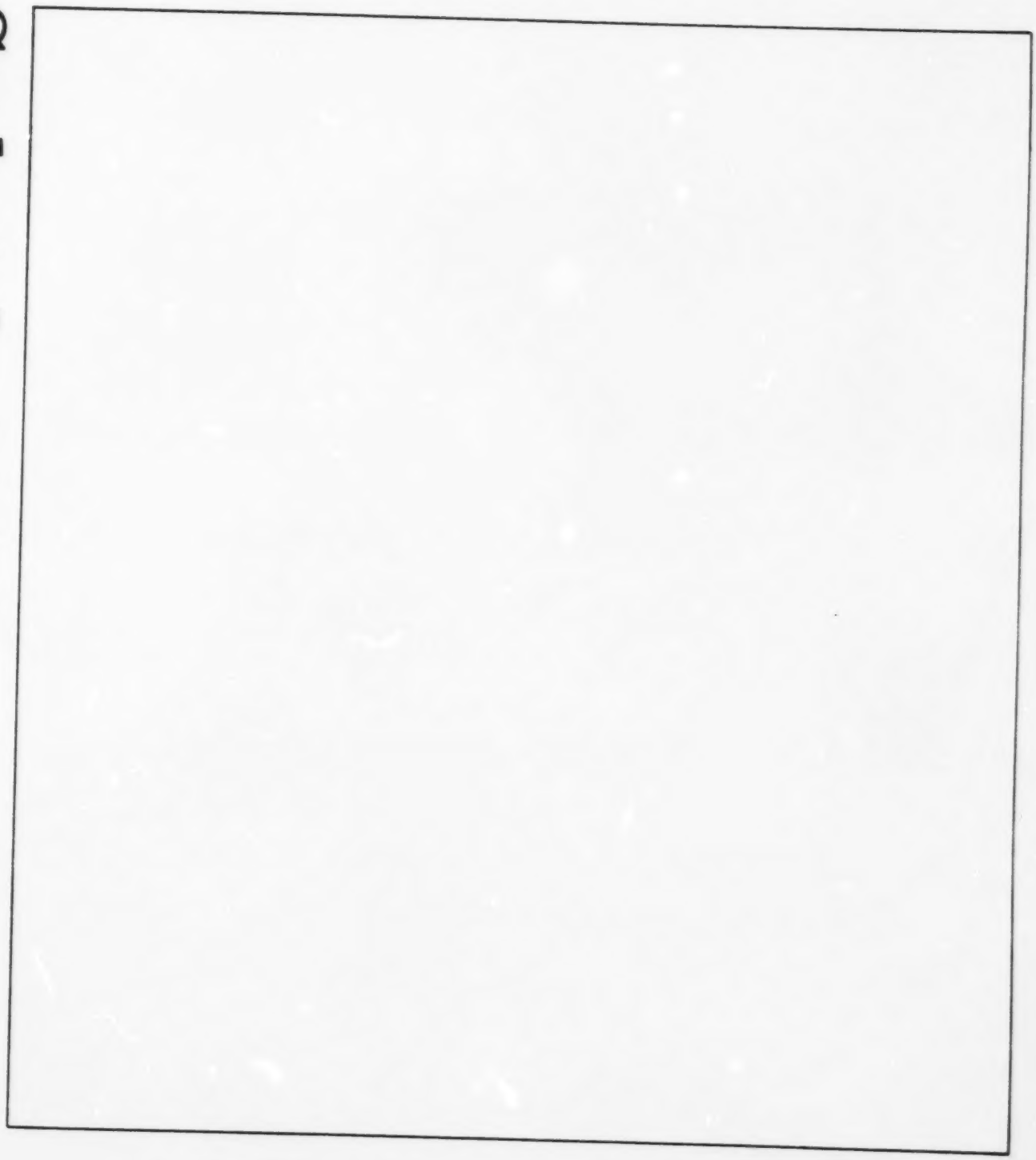
Source: Health Insurance Registration Covered Population

Year	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95+
1964	52,018	47,604	39,825	33,042	26,759	23,759	18,986	11,254	4,328	1,144	226
1965	52,441	48,823	40,790	33,468	27,115	23,237	19,372	11,755	4,797	1,226	600
1966	52,604	49,457	42,029	34,108	27,328	23,538	19,158	12,154	5,070	1,337	252
1967	53,059	49,989	43,038	35,175	27,714	23,296	19,247	12,522	5,540	1,464	915
1968	53,182	49,763	43,841	36,125	28,359	22,739	18,976	12,697	5,857	1,586	914
1969	53,515	49,851	45,185	36,912	29,491	22,327	18,832	12,923	6,227	1,737	317
1970	52,423	50,015	46,089	37,644	29,861	22,691	18,453	13,183	6,444	1,949	314
1971	51,768	49,866	46,502	38,603	30,516	22,928	18,388	13,161	6,659	2,128	389
1972	50,856	50,102	46,772	39,325	31,971	23,677	18,364	13,274	6,946	2,348	417
1973	50,168	49,931	49,469	40,053	33,271	24,596	18,274	13,315	7,324	2,508	495
1974	49,268	50,123	46,372	41,156	33,469	25,310	17,862	13,202	7,335	2,609	527
1975	48,944	49,629	46,784	42,243	33,956	25,761	18,086	12,901	7,428	2,687	598
1976	48,443	49,446	47,031	42,892	34,989	26,454	18,324	12,875	7,352	2,766	628
1977	47,938	48,993	47,588	43,430	35,677	27,455	18,790	12,796	7,340	2,862	710
1978	47,487	48,914	47,872	43,494	36,431	28,540	19,436	12,691	7,408	2,993	736
1979	46,814	48,316	48,241	43,584	37,684	29,137	20,313	12,610	7,660	3,085	796
1980	45,867	48,042	47,710	44,021	38,896	29,673	20,851	12,887	7,581	3,250	836
1981	45,402	47,514	47,565	44,267	39,673	30,587	21,432	13,250	7,595	3,302	884
1982	44,929	47,021	47,180	44,810	40,241	31,324	22,335	13,642	7,667	3,340	936
1983	44,819	46,589	47,242	45,067	40,432	32,022	23,318	14,212	7,624	3,352	1,016
1984	44,949	46,037	46,702	45,647	40,230	33,301	23,856	14,903	7,672	3,463	1,071
1985	45,081	45,367	46,554	45,237	40,887	34,481	24,408	15,211	7,886	3,437	1,118
1986	45,691	44,787	45,943	44,920	40,969	35,076	25,127	15,750	8,085	3,390	1,144
1987	46,160	44,204	45,450	44,518	41,339	35,595	25,796	16,382	8,393	3,429	1,164
1988	47,200	43,808	44,975	44,415	41,453	35,642	26,526	17,099	8,798	3,450	1,145
1989	47,932	43,438	44,201	43,823	41,910	35,443	27,562	17,531	9,265	3,459	1,165
1990	48,744	43,151	43,337	43,511	41,528	35,918	28,692	17,945	9,546	3,640	1,226
1991	49,097	43,242	42,526	42,906	41,146	36,067	29,231	18,634	9,760	3,754	1,203

Source: Health Insurance Registration Covered Population

Saskatchewan Health

Appendix A



Accidental Deaths and Suicide By Age Group and Individual E-Code
Saskatchewan, 1989

Cause of Death		0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
E810-E819	Motor Vehicle Traffic Accidents																				
	Collision with train (E810)	-	-	1	-	-	2	1	1	1	-	-	-	2	-	-	-	1	-	-	9
	Collision with another motor vehicle (E812)	1	-	-	1	6	5	3	5	12	4	5	2	3	8	12	9	6	4	1	87
	Collision with other vehicle (E813)	-	-	1	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	4
	Collision with pedestrian (E814)	-	1	3	-	2	2	1	2	-	-	1	2	1	-	-	-	1	-	1	17
	Other collision, highway (E815)	-	1	-	-	2	1	-	-	-	1	-	-	1	-	-	-	-	-	-	6
	Non-collision due to loss of control, highway (E816)	-	-	-	2	6	12	8	10	2	6	2	1	2	2	4	-	2	-	-	59
	Other non-collision (E818)	-	-	1	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	4
	Unspecified nature (E819)	-	-	-	2	5	2	-	1	2	-	2	1	-	-	1	2	2	2	1	23
E820-E825	Motor Vehicle Non-Traffic Accidents																				
	Motor driven snow vehicle (E820)	-	-	-	1	2	2	1	1	-	-	-	-	-	-	-	-	-	-	-	7
	Collision with moving object (E822)	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2
	Collision with stationery object (E823)	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Other and unspecified nature (E825)	-	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	3
E830-E838	Water Transport Accidents																				
	Boat with submersion (E830)	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Other accidental submersion or drowning (E832)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
E840-E845	Air & Space Transport Accidents																				
	Powered aircraft, other, unspecified (E841)	-	-	-	-	-	-	3	-	1	1	-	-	-	-	1	-	-	-	-	6
E850-E858	Accidental Poisoning, Drugs, Medicaments, Biologicals																				
	Analgesics, antipyretics, antirheumatics (E850)	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
	Tranquilizers (E853)	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	2
	Other Psychotropic agents (E854)	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
	Other drugs (E858)	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2
E860-E869	Accidental Poisoning By Other Substances																				
	Alcohol NEC (E860)	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	3
	Petroleum, other solvents, vapours, NEC (E862)	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
	Other utility gas, carbon monoxide (E868)	-	-	-	-	1	1	1	2	-	1	-	-	-	-	3	-	-	-	-	9
	Other gases, vapours (E869)	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	3
E870-E876	Misadventures to Patients During Surgical & Medical Care																				
	Accidental cut, puncture, perforation or haemorrhage (E870)	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	1	1	3	7

Cause of Death		0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
E878-E879	Complication of Medical Procedures Without Mention of Misadventure																				
	Amputation of limb (E878)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
E880-E888	Accidental Falls																				
	On or from stairs or steps (E880)	-	-	-	-	-	-	-	-	1	2	-	-	-	-	2	1	-	1	2	9
	On or from ladders and scaffolding (E881)	-	-	-	-	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	2
	Other, from one level to another (E884)	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	5	9
	Same level, slipping, tripping (E885)	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	7	11
	Fracture, cause unspecified (E887)	-	-	-	-	-	-	-	1	-	1	-	1	3	2	-	-	2	3	5	12
	Other & unspecified (E888)																	7	12	26	53
E890-E899	Accidents Caused by Fire & Flames																				
	Conflagration in private dwelling (E890)	-	1	-	-	-	1	2	-	4	1	-	-	1	-	-	-	-	1	-	11
	In other and NOS building or structure (E891)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
	Conflagration not, building, structure (E892)	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	2
E900-E909	Accidents due to Natural and Environmental Factors																				
	Excessive cold (E901)	-	-	-	-	-	3	-	1	-	-	-	-	-	-	-	-	1	1	-	6
	Hunger, thirst, exposure, neglect (E904)	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-	1	1	5
E910-E915	Accidents, Submersion, Suffocation and Foreign Bodies																				
	Accidental drowning and submersion (E910)	-	5	2	-	-	1	2	1	-	-	-	1	1	-	1	-	-	-	1	15
	Inhalation & ingestion of food causing respiratory obstruction (E911)	-	1	1	-	-	-	-	-	-	1	-	2	1	-	-	3	1	-	7	17
	Causing respiratory obstruction (E912)	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	2
	Accidental mechanical suffocation (E913)	1	2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5
E916-E928	Other Accidents																				
	Struck by falling object (E916)	-	-	-	-	-	-	1	1	-	-	1	2	-	1	1	-	-	-	-	7
	Striking against or struck by objects or persons (E917)	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Caused by machinery (E919)	-	-	-	1	-	-	-	-	-	2	-	1	-	-	1	1	1	-	-	7
	Firearm missile (E922)	-	-	2	-	-	-	-	1	-	-	-	1	-	1	-	-	-	-	-	5
	Hot substance or object, caustic or corrosive material and steam (E924)	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Electric current (E925)	-	-	-	-	1	-	1	1	1	1	-	1	-	-	-	-	-	-	-	6
	Other and NOS environmental causes (E928)	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	2
E929	Late Effects of Accidental Injury	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1

Cause of Death		0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
E950-E959	Suicide & Self Inflicted Injury																				
	Poisoning by solid or liquid substances (E950)	-	-	-	-	-	-	1	1	4	-	2	-	3	1	-	-	1	-	-	13
	Poisoning by other gases and vapours (E952)	-	-	-	1	1	1	4	1	5	1	-	1	1	-	-	-	-	-	1	17
	Hanging, strangulation and suffocation (E953)	-	-	-	-	3	8	1	9	5	3	-	1	2	2	-	1	1	2	-	38
	Submersion (E954)	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	3
	Firearms & explosives (E955)	-	-	-	-	7	5	9	7	-	5	2	2	1	1	6	-	2	1	1	49
	Cutting & piercing instruments (E956)	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	3
	Other & unspecified means (E958)	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Total Accidental Deaths and Suicides (E800 - E959)		3	16	12	9	40	53	42	50	45	31	16	23	29	22	37	19	31	33	63	574

Accidental Deaths and Suicide, By Individual E-Code and Sex
Saskatchewan, Total Population, 1986-1989

Cause of Accident	1986		1987		1988		1989	
	Male	Female	Male	Female	Male	Female	Male	Female
E800-E807 Railway Accidents								
Collision with rolling stock (E800)	1	4	1	-	2	-	-	-
Collision with other object (E801)	-	-	1	-	-	-	-	-
Hit by rolling stock (E805)	-	1	2	1	1	1	-	-
E810-E819 Motor Vehicle Traffic Accidents								
Collision with train (E810)	4	1	2	-	5	-	7	2
Collision with another motor vehicle (E812)	65	35	62	27	57	31	54	33
Collision with other vehicle (E813)	6	2	7	3	2	1	4	-
Collision with pedestrian (E814)	21	5	23	15	15	9	12	5
Other collision, highway (E815)	1	-	6	-	5	3	4	2
Non-collision due to loss of control, highway (E816)	65	17	46	14	40	13	45	14
Noncollision, boarding or alighting (E817)	-	-	1	-	-	-	-	-
Other non-collision (E818)	1	-	-	1	-	1	3	1
Unspecified nature (E819)	18	4	25	9	14	6	13	10
E820-E828 Motor Vehicle Non-Traffic Accidents								
Motor driven snow vehicle (E820)	2	-	6	-	3	1	6	1
Other off-road motor vehicle (E821)	1	-	-	-	-	1	-	-
Collision with moving object (E822)	-	-	1	-	1	-	1	1
Collision with stationery object (E823)	-	-	-	-	-	-	1	-
Other and unspecified nature (E825)	1	-	-	-	-	-	3	-
Pedal cycle (E826)	1	-	-	1	1	-	-	-
E830-E838 Water Transport Accidents								
Boat with submersion (E830)	1	-	-	-	-	-	1	-
Other accidental submersion or drowning (E832)	2	-	1	-	2	-	1	-

Cause of Accident		1986		1987		1988		1989	
		Male	Female	Male	Female	Male	Female	Male	Female
E840-E845	Air & Space Transport Accidents								
	Powered aircraft at take-off or landing (E840)	-	-	1	-	-	-	-	-
	Powered aircraft, other, unspecified (E841)	10	-	3	-	3	1	6	-
	Accident to unpowered aircraft (E842)	1	-	-	-	-	-	-	-
E846-E848	Vehicle Accidents Not Elsewhere Classified								
	Powered vehicles used in premises of industrial, commercial establishment (E846)	1	-	-	-	1	-	-	-
E850-E858	Accidental Poisoning, Drugs, Medicaments, Biologicals								
	Analgesics, antipyretics, antirheumatics (E850)	1	1	1	2	2	2	1	-
	Other sedatives and hypnotics (E852)	-	-	1	1	-	-	-	-
	Tranquilizers (E853)	-	-	1	-	-	-	-	2
	Other psychotropic agents (E854)	1	-	-	2	-	-	-	1
	Other drugs acting on CNS and autonomic nervous system (E855)	-	1	1	-	1	-	-	-
	Other drugs (E858)	-	4	1	1	-	-	1	1
E860-E869	Accidental Poisoning By Other Substances								
	Alcohol, NEC (E860)	1	-	6	2	2	1	1	2
	Petroleum, other solvants, vapours, NEC (E862)	-	-	-	-	-	-	1	-
	Other and NOS solids and liquids (E866)	-	-	1	-	-	-	-	-
	Gas distributed by pipeline (E867)	-	-	1	-	-	-	-	-
	Other utility gas, carbon monoxide (E868)	12	-	9	-	6	2	7	2
	Other gases, vapours (E869)	2	-	-	-	-	-	3	-

Cause of Accident	1986		1987		1988		1989	
	Male	Female	Male	Female	Male	Female	Male	Female
E870-E876 Misadventures to Patients During Surgical and Medical Care								
Accidental cut, puncture, perforation or haemorrhage (E870)	1	-	2	-	-	1	3	4
Mechanical failure of instrument (E874)	-	1	-	-	-	-	-	-
E878-E879 Complication of Medical Procedures Without Mention of Misadventure								
Surgical operation, procedures (E878)	-	-	-	-	-	-	-	1
Other procedures, without misadventure (E879)	-	-	1	-	-	-	-	-
E880-E888 Accidental Falls								
On or from stairs or steps (E880)	7	4	6	6	10	4	7	2
On or from ladders or scaffolding (E881)	1	-	3	-	1	-	2	-
From, out of building, other structure (E882)	1	-	2	-	4	-	-	-
Other, from one level to another (E884)	7	3	4	5	6	4	4	5
Same level, slipping, tripping (E885)	3	5	4	5	4	2	5	6
Fracture, cause unspecified (E887)	2	11	4	5	2	5	5	7
Other and unspecified (E888)	23	27	14	25	25	40	27	26
E890-E899 Accidents Caused By Fire and Flames								
Conflagration in private dwelling (E890)	14	3	18	10	12	5	10	1
In other and NOS building or structure (E891)	-	-	1	-	-	-	1	-
Conflagration not, building, structure (E892)	-	-	2	-	-	-	2	-
Ignition of clothing (E893)	-	-	-	-	1	-	-	-
Controlled fire not in building or structure (E897)	-	-	-	-	1	-	-	-
Other specified fire and flames (E898)	-	-	-	1	-	-	-	-
Unspecified fire (E899)	-	-	-	-	1	-	-	-

Cause of Accident		1986		1987		1988		1989	
		Male	Female	Male	Female	Male	Female	Male	Female
E900-E909	Accidents Due To Natural and Environmental Factors								
	Excessive cold (E901)	8	4	4	4	9	2	3	3
	Hunger, thirst, exposure, neglect (E904)	2	-	3	1	1	1	3	2
	Poisoning, toxic reactions (E905)	1	-	-	-	-	-	-	-
	Other injury caused by animals (E906)	2	-	1	-	1	1	-	-
	Cataclysmic storms and floods (E908)	-	-	1	1	-	-	-	-
E910-E915	Accidents, Submersion, Suffocation and Foreign Bodies								
	Accidental drowning and submersion (E910)	16	3	27	1	24	2	13	2
	Inhalation & ingestion of food causing obstruction (E911)	8	11	10	11	11	7	8	9
	Causing respiratory obstruction (E912)	-	2	2	1	1	2	-	2
	Accidental mechanical suffocation (E913)	5	1	1	1	5	-	4	1
E916-E928	Other Accidents								
	Struck by falling object (E916)	1	-	6	-	5	-	7	-
	Striking against or struck by objects or persons (E917)	1	-	-	1	1	1	1	-
	Caught in or between objects (E918)	-	-	1	-	-	-	-	-
	Caused by machinery (E919)	16	-	15	-	10	1	7	-
	Cutting, piercing instruments (E920)	-	-	1	-	1	-	-	-
	Explosion of pressure vessel (E921)	-	-	1	-	-	-	-	-
	Firearm missile (E922)	2	-	6	-	4	-	4	1
	Explosive material (E923)	-	-	2	-	2	-	-	-
	Hot substance or object, caustic or corrosive material and steam (E924)	1	-	-	-	2	-	-	1
	Electric current (E925)	1	-	2	-	5	-	6	-
	Other and NOS environmental causes (E928)	2	1	1	1	-	-	1	1

Cause of Accident		1986		1987		1988		1989	
		Male	Female	Male	Female	Male	Female	Male	Female
E929	Late Effects of Accidental Injury	4	2	1	1	2	1	-	1
E930-E949	Substances Causing Adverse Effects in Therapeutic Use								
	Other CNS depressants (E938)	-	-	-	-	-	1	-	-
	Other and NOS drugs and medicaments (E947)	-	1	-	-	-	-	-	-
E950-E959	Suicide and Self Inflicted Injury								
	Poisoning by solid or liquid substances (E950)	10	16	6	11	6	8	7	6
	Poisoning by other gases and vapours (E952)	15	3	12	3	22	4	14	3
	Hanging, strangulation & suffocation (E953)	23	4	26	8	23	4	34	4
	Submersion (E954)	2	-	2	-	1	2	1	2
	Firearms and explosives (E955)	55	5	49	5	63	3	43	6
	Cutting and piercing instruments (E956)	-	2	4	1	2	-	2	1
	Jumping from high place (E957)	-	1	1	1	2	2	-	-
	Other and unspecified means (E958)	2	-	3	-	1	1	1	-
	Late effects (E959)	-	-	-	-	1	-	-	-
	TOTAL DEATHS DUE TO ACCIDENTS AND SUICIDE	455	185	459	188	435	177	400	174

Saskatchewan Health

Appendix B

Saskatchewan

Hospitalized Accident Cases* and Patient Days
Saskatchewan, 1988-89

Type and Cause of Accident		Cases		Patient Days
		Number	Rate+	
E800-E807	**Railway Accidents**			
	Collision with rolling stock (E800)	1	.09	2
	Collison with other object (E801)	1	.09	1
	Hit by rolling stock (E805)	1	.09	1
E810-E819	**Motor Vehicle Traffic Accidents**			
	Collision with train (E810)	6	.57	59
	Re-entrant collision with another motor vehicle (E811)	9	.86	32
	Collision with another motor vehicle (E812)	464	44.44	3,652
	Collision with other vehicle (E813)	112	10.73	1,041
	Collision with pedestrian (E814)	210	20.11	2,080
	Other collision, highway (E815)	71	6.80	454
	Noncollision due to loss of control, highway (E816)	739	70.78	5,543
	Noncollision motor vehicle traffic accident while boarding or alighting (E817)	28	2.68	238
	Other noncollision (E818)	99	9.48	453
	Unspecified nature (E819)	389	37.26	2,166
E820-E825	**Motor Vehicle NonTraffic Accidents**			
	Motor driven snow vehicle (E820)	122	11.68	663
	Other off-road motor vehicle (E821)	133	12.74	634
	Collision with moving vehicle (E822)	47	4.50	614
	Collision with stationary object (E823)	13	1.25	170
	Other motor vehicle nontraffic accident while boarding or alighting (E824)	27	2.59	229
	Other motor vehicle nontraffic accident of other and unspecified nature (E825)	48	4.60	251

Type and Cause of Accident		Cases		Patient Days
		Number	Rate+	
E826-E829	Other Road Vehicle Accidents			
	Pedal cycle accident (E826)	241	23.08	677
	Animal drawn vehicle accident (E827)	11	1.05	61
	Accident involving animal being ridden (E828)	169	16.19	628
	Other road vehicle accidents (E829)	4	.38	22
E830-E838	Water Transport Accidents			
	Boat with submersion (E830)	3	.29	38
	Other accidental submersion or drowning (E832)	1	.09	2
	Other and unspecified fall in water transport (E835)	6	.57	9
	Other and unspecified (E838)	10	.96	157
E840-E845	Air & Space Transport Accidents			
	Powered aircraft, other, unspecified (E841)	2	.19	2
	Accident to unpowered aircraft (E842)	3	.29	11
	Other specified air transport accidents (E844)	4	.38	13
E846-E848	Vehicle Accidents not Elsewhere Classifiable			
	Accidents involving powered vehicles used solely within the buildings and premises of an industrial or commercial establishment (E846)	2	.19	5
	Accidents involving other vehicles not elsewhere classifiable (E848)	27	2.59	70
E850-E858	Accidental Poisoning, Drugs, Medicaments, Biologicals			
	Analgesics, antipyretics, antirheumatics (E850)	80	7.66	184
	Barbiturates (E851)	5	.48	13
	Accidental poisoning by other sedatives and hypnotics (E852)	26	2.49	78
	Accidental poisoning by tranquilizers (E853)	30	2.87	55
	Accidental poisoning by other psychotropic agents (E854)	17	1.63	35

Type and Cause of Accident	Cases		Patient Days
	Number	Rate+	
Accidental poisoning by other drugs acting on central and autonomic nervous systems (E855)	23	2.20	124
Accidental poisoning by antibiotics (E856)	3	.29	3
Accidental poisoning by anti-infectives (E857)	5	.49	19
Other drugs (E858)	143	13.69	453
E860-E869 Accidental Poisoning by Other Substances			
By alcohol, not elsewhere classifiable (E860)	34	3.26	83
Cleansing and polishing agents, disinfectants, paints and varnishes (E861)	23	2.20	72
Petroleum, other solvents, vapours, NEC (E862)	27	2.59	37
Agricultural, horticultural, pharmaceutical substances (E863)	32	3.06	94
Corrosives and caustics, NEC (E864)	26	2.49	59
Foodstuffs and poisonous plants (E865)	33	3.16	61
Other and unspecified solid and liquid substances (E866)	23	2.20	83
Gas distributed by pipeline (E867)	1	.09	3
Other utility gas and other carbon monoxide (E868)	20	1.92	33
Other gases and vapours (E869)	21	2.01	39
E870-E876 Misadventures to Patients During Surgical and Medical Care			
Accidental cut, puncture, perforation or haemorrhage (E870)	393	37.64	4,358
Foreign object left in body during procedure (E871)	7	.67	48
Failure of sterile precautions during procedure (E872)	55	5.27	998
Failure in dosage (E873)	4	.38	29
Mechanical failure of instrument or apparatus during procedure (E874)	12	1.15	95
Other and unspecified misadventures during medical care (E876)	62	5.94	449

Type and Cause of Accident		Cases		Patient Days
		Number	Rate+	
E878-E879	Surgical and Medical Procedures as the Cause of Abnormal Reaction of Patient or Later Complication, Without Mention of Misadventure at the time of the Procedure			
	Surgical operation and other surgical procedures as the cause of abnormal reaction of patient, without mention of misadventure at the time of the operation (E878)	5,225	500.41	78,318
	Other procedures (E879)	1,058	101.33	18,832
E880-E888	Accidental Falls			
	On or from stairs or steps (E880)	689	65.99	4,987
	On or from ladders or scaffolding (E881)	155	14.84	1,149
	Fall from or out of building or other structure (E882)	98	9.39	474
	Fall into hole or other opening in surface (E883)	41	3.93	474
	Other fall from one level to another (E884)	1,123	107.55	10,730
	Fall on same level from slipping, tripping or stumbling (E885)	2,013	192.79	23,407
	Fall on same level from collision, pushing or shoving, by or with other person (E886)	213	20.40	627
	Fracture, cause unspecified (E887)	128	12.26	1,828
	Other and unspecified (E888)	2,031	194.51	26,481
E890-E899	Accidents Caused by Fire & Flames			
	Conflagration in private dwelling (E890)	29	2.78	386
	Conflagration in other and unspecified building or structure (E891)	4	.38	7
	Conflagration not in building or structure (E892)	14	1.34	89
	Ignition of clothing (E893)	19	1.82	289
	Ignition of highly inflammable material (E894)	36	3.45	446
	Controlled fire in private dwelling (E895)	2	.19	5

Type and Cause of Accident		Cases		Patient Days
		Number	Rate+	
	Controlled fire not in building or structure (E897)	12	1.15	138
	Other specified fire & flames (E898)	29	2.78	228
	Unspecified fire (E899)	24	2.30	223
E900-E909	Accidents Due to Natural and Environmental Factors			
	Excessive heat (E900)			
	Excessive cold (E901)	100	9.58	476
	Travel and motion (E903)	80	7.67	973
	Hunger, thirst, exposure, neglect (E904)	3	.29	9
	Poisoning, toxic reactions (E905)	14	1.34	222
	Other injury caused by animals (E906)	28	2.68	49
	Lightning (E907)	192	18.39	918
	Cataclysmic earth surface movements & eruptions (E909)	2	.19	3
E910-E915	Accidents, Submersions, Suffocation and Foreign Bodies	3	.29	14
	Accidental drowning or submersion (E910)			
	Inhalation and ingestion of food causing respiratory obstruction (E911)	16	1.53	55
	Inhalation and ingestion of other object causing obstruction of respiratory tract or suffocation (E912)	64	6.13	634
	Accidental mechanical suffocation (E913)	34	3.26	155
	Foreign body accidentally entering eye and adnexa (E914)	2	.19	3
	Foreign body accidentally entering other orifice (E915)	38	3.64	173
E916-E929	Other Accidents	163	15.61	553
	Struck by falling object (E916)			
	Striking against or struck by objects or persons (E917)	94	9.00	428
	Caught in or between objects (E918)	1,040	99.60	3,351
	Caused by machinery (E919)	100	9.58	420
		284	27.20	1,607

Type and Cause of Accident		Cases		Patient Days
		Number	Rate+	
	Cutting or piercing instruments (E920)	410	39.27	1,716
	Caused by explosion of pressure vessel (E921)	17	1.63	113
	Firearm missile (E922)	48	4.59	421
	Caused by explosive material (E923)	35	3.35	343
	Hot substance or object, caustic or corrosive material & steam (E924)	254	24.33	2,594
	Electric current (E925)	7	.67	44
	Exposure to radiation (E926)	9	.86	87
	Overexertion and strenuous movement (E927)	621	59.47	3,525
	Other and unspecified environmental and accidental causes (E928)	456	43.67	3,478
E929	Late Effects of Accidental Injury	665	63.69	6,074
E930-E949	Drugs, Medicaments & Biological Substances Causing Adverse Effects in Therapeutic Use			
	Antibiotics (E930)	252	24.13	2,798
	Other anti-infectives (E931)	65	6.23	417
	Hormones and synthetic substitutes (E932)	160	15.32	2,399
	Primarily systemic agents (E933)	216	20.69	1,923
	Agents primarily affecting blood constituents (E934)	75	7.18	1,213
	Analgesics, antipyretics and antirheumatics (E935)	248	23.75	2,363
	Anticonvulsants & anti-parkinsonism drugs (E936)	73	6.99	976
	Sedatives and hypnotics (E937)	28	2.68	453
	Other central nervous system depressants (E938)	137	13.12	790
	Psychotropic agents (E939)	106	10.15	1,369
	Drugs primarily affecting the autonomic nervous system (E941)	22	2.11	294
	Agents primarily affecting the cardiovascular system (E942)	292	27.97	3,617
	Agents primarily affecting gastrointestinal system (E943)	24	2.30	351
	Water, mineral, and uric acid metabolism drugs (E944)	121	11.59	1,384

Type and Cause of Accident		Cases		Patient Days
		Number	Rate+	
	Agents primarily acting on the smooth and skeletal muscles and respiratory system (E945)	42	4.02	479
	Agents primarily affecting skin and mucous membrane, opthalmological, otorhinolaryngological and dental drugs (E946)	90	8.62	908
	Other and unspecified drugs and medicaments (E947)	122	11.68	1,203
	Bacterial vaccines (E948)	6	.57	134
	Other vaccines and biological substance (E949)	7	.67	18
E950-E959	Suicide & Self Inflicted Injury			
	By solid or liquid substances (E950)	666	63.78	2,171
	Suicide and self-inflicted poisoning by gases in domestic use (E951)	3	.29	14
	Poisoning by other gases and vapours (E952)	7	.67	121
	Hanging, strangulation, and suffocation (E953)	7	.67	48
	Firearms & explosives (E955)	25	2.39	322
	Cutting & piercing instruments (E956)	31	2.97	400
	Jumping from high place (E957)	4	.38	112
	Other and unspecified means (E958)	15	1.44	415
	Late effects of self-inflicted injury (E959)	1	.09	14
Total All Causes (E800 - E959)		24,675	2,363.26	251,745

Source: Hospital Services Branch

* Excludes cases not covered by the Hospital Services Branch. This table shows data for the period April 1, 1988 - March 31, 1989.

\+ Rate per 100,000 population (HIR Covered Population)

Saskatchewan Health

Accident Classifications

Saskatchewan

EXPLANATION OF CATEGORIES USED IN THIS BOOK

The categories used to describe accidents are summaries of classifications found in hospital and mortality data.

The classifications used are the International Classification of Disease codes for external cause of injury (E codes - E800 - E959, ICD 9th Revision).

The following explanations are intended to clarify what could be included under the headings used, although specific ICD codes are not always listed under the same groups.

Motor Vehicle Accidents (E810 - E825)

Includes collision and non-collision accidents involving a car, truck, bus, construction or farm machine while in transport under its own power, motorcycle or snowmobile.

Includes collision between any of these motor vehicles and a pedestrian, bicyclist, rider of animal or occupant of a non-motorized vehicle.

Includes accidents occurring on a public highway (traffic accident) and elsewhere (non-traffic accident).

Fires (E890 - E899)

Includes injuries caused by fires and flames.

Drowning (E830, E832, E910)

Includes submersion in boating accident, while swimming, falling through ice, or drowning in bath.

Suffocation (E911 - E913)

Includes suffocation or choking on food or other object, mechanical suffocation by smothering or strangulation.

Poisoning (E850 - E858, E860 - E869)

Includes accidental ingestion or overdose of drugs or other substances, gases and vapours.

Other Transportation (E800 - E807, E826 - E829, E831, E833 - E838, E840 - E845, E846 - E848)

Includes bicycle accidents where no motor vehicle is involved. Animal drawn and other non-motorized vehicles. Railway and air accidents and water transportation accidents other than submersion.

Cutting Objects (E920)

Includes broken glass, nails, hand tools, powered hand tools, lawn mowers, meat slicer, saws and other sharp objects.

Hot Substance or Object (E924)

Includes acids, hot liquids, molten metal, heat from electric appliance, without fire.

Overexertion and Strenuous Movement (E927)

Includes exhaustion, injury in bending, straining or twisting, lifting, pulling or pushing.

Falls (E880 - E888)

Accidental falls including falls on stairs, while running, slipping, and so on.

Struck Against or by Persons or Objects (E917)

Including collision with person, stationary object, or moving object (other than motor vehicle or objects elsewhere classified).

Suicide and Self-inflicted Injury (E950 - E959)

Includes injuries in suicide and attempted suicide.

Other Accidents (E870 - E879, E900 - E909, E914 - E915, E916, E918, E919, E921 - E923, E925, E928, E929, E930 - E949)

Includes misadventures to patients during surgical and medical care, natural factors including excessive heat and cold, exposure, animal bites, insect bites and catastrophic floods or earth movement, foreign objects including foreign body entering an eye, ear, nose or other orifice, including dust, oil or object (not food) which causes injury other than suffocation, struck accidentally by falling object, caught accidentally in or between objects, accidents caused by machinery, accidents caused by explosion of pressure vessel, firearm missile and explosive material, late effects of accidental injury and drugs, medicaments and biological substances causing adverse effects in therapeutic use.